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BULLETIN
OF
THE TULANE UNIVERSITY
OF LOUISIANA

Series 20, No. 10, AUGUST 1, 1919



THE COLLEGE OF MEDICINE
SCHOOL OF MEDICINE
AND
SCHOOL OF PHARMACY

ANNOUNCEMENT FOR 1919-1920

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THE TULANE UNIVERSITY OF LOUISIANA

NEW ORLEANS

ALBERT B. DINWIDDIE, Ph. D., LL. D., President.

The University, in all its departments, is located in the City of New Orleans, the metropolis of the South. There are twelve Departments, with twenty-four buildings. Modern dormitories, extensive laboratories, libraries, and museums.

THE COLLEGE OF ARTS AND SCIENCES, for men, offers full courses in Literature, History, Languages and Science. Many scholarships open to high school graduates.

THE COLLEGE OF TECHNOLOGY offers unexcelled courses in the following schools: Mechanical-Electrical Engineering, Civil Engineering, Chemical Engineering and Architecture.

THE NEWCOMB COLLEGE FOR WOMEN offers full courses in Literature, History, Languages, Science, Art, Music, Domestic Science, and Domestic Art. Special training for prospective teachers of high and elementary schools.

THE FACULTY OF GRADUATE STUDIES, open to graduates of approved colleges, offers advanced courses leading to the degrees of M. A., E. E., M. E., C. E., M. Arch., Ch. E., and Ph. D. A number of Fellowships are awarded annually.

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THE SCHOOL OF MEDICINE, established in 1834, unexcelled laboratory and clinical advantages. Women are admitted on same terms as men.

THE GRADUATE SCHOOL OF MEDICINE, established in 1888, as the New Orleans Polyclinic. Graduate courses offered in all fields of medicine, including research.

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For special circulars or for detailed information, address the Deans of the respective departments. For General Register of the University, address,

REGISTRAR OF THE TULANE UNIVERSITY OF LOUISIANA
Gibson Hall, New Orleans.

THE COLLEGE OF MEDICINE

SCHOOL OF MEDICINE

OF THE

TULANE UNIVERSITY OF LOUISIANA

1834-1847 Medical College of Louisiana

1847-1884 Medical Department, University of Louisiana

1884-1913 Medical Department, Tulane University of Louisiana

1913 — College of Medicine, Tulane University of Louisiana

ANNOUNCEMENT FOR 1919-1920

CALENDAR

(The College year is divided into two terms.)

1919

Sept. 29 Monday	Registration of New Students
Sept. 30 Tuesday	Registration of Old Students.
Oct. 1 Wednesday	Instruction begins.
Nov. 1 Saturday	All Saints' Day. A holiday.
Nov. 27 Thursday	Thanksgiving Day. A holiday
Dec. 23 Tuesday	Christmas holidays begin, at 3 P. M.

1920

Jan. 5 Monday	University reopens, at 8:30 A. M.
Feb. 2 Monday	Second Term begins.
Apr. 2 Friday.	Good Friday. A holiday.
June 9 Wednesday	University Commencement.
June 14 Monday	Summer School of Medicine Opens.

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14 Rosa Park.

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SARAH MAGILL, Stenographer, Laboratories of Clinical Medicine,
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450 Lowerline Street.

ANNOUNCEMENT

This department was founded in 1834, as the Medical College of Louisiana; in 1847 it became the Medical Department of the University of Louisiana, around which the Colleges of Law and of Arts and Sciences developed, until in 1884, the University of Louisiana became the Tulane University of Louisiana. It is the oldest Medical College in the Southwest and has the greatest number of Alumni. To June, 1919, there have been graduated 4936 in Medicine.

GENERAL STATEMENT

Beginning with the session 1913-14, the name of The Tulane Medical Department was changed to THE TULANE COLLEGE OF MEDICINE, which embraces the School of Medicine, The School of Pharmacy, The Graduate School of Medicine, and The School of Dentistry.

SCHOOL OF MEDICINE

The Eighty-Sixth Annual Session Opens MONDAY, SEPTEMBER 29, 1919.

Students of the first two years are taught on the University Campus. During the last two years the courses are given in the Hutchinson Memorial on Canal Street, near the business center, and at the various institutions with which the Tulane Medical School is associated, viz., the Charity Hospital, the Touro Infirmary, etc.

RICHARDSON MEMORIAL

and

RICHARDSON CHEMISTRY BUILDING

The **Richardson Memorial Building** on the Tulane Campus provides the laboratories and equipment for all the teaching of the first two years, excepting for Chemistry, which is taught in the extensive laboratories of the **Richardson Chemistry Building**, also located on the Tulane Campus. The facilities afforded for the thorough instruction of students in their first two years in medicine are fully in accord with the highest demands of modern medical education.

HUTCHINSON MEMORIAL

The **Josephine Hutchinson Memorial Building** on Canal Street, with its numerous laboratories and lecture halls provides every facility for the teaching of the last two years. This building is located within two blocks of the Charity Hospital where most of the clinical instruction is conducted.

DORMITORIES FOR MEDICAL STUDENTS

Dormitories have been provided in the first two years, for a limited number of medical students who will have the surroundings of a residential neighborhood and, besides, the contact with the students of the undergraduate colleges, thus broadening their education and college spirit.

LIBRARIES

The library of the Medical Department is conveniently arranged for reference, in the Hutchinson Memorial, with about 10,230 valuable books and about 4,850 pamphlets, as well as an excellent file of the

current medical journals. Additions are being constantly made to this valuable adjunct of medical education. Additional special library facilities are arranged in each of the laboratory divisions.

CHARITY HOSPITAL

The use of the wards of the great Charity Hospital of New Orleans, with over 1100 beds, annually occupied by from nine to ten thousand patients, and the use of two clinical buildings, with about 30,000 outdoor patients annually, have been given by the Legislature to the teaching staff of the College of Medicine of The Tulane University of Louisiana, for the practical instruction of its students, not only in all the divisions of medicine and surgery, but also in obstetrics and gynecology, as well as in pathology. Medical students are given access to the Charity Hospital free, and enjoy far better opportunities for the study of diseases therein than are usually possible in the hospitals of other cities. For the study of diseases of the South and also of exotic types of conditions of tropical origin there is no field comparable to the wards of this hospital. Between the Josephine Hutchinson Memorial Building of the College of Medicine and the Charity Hospital there are only two squares, which distance is readily walked in three minutes.

OUT CLINICS

The clinical buildings for outdoor patients are subdivided into different services, namely: for medical cases, for nervous diseases, for surgical cases; for genito-urinary and venereal diseases; for skin diseases; for diseases of the eye; of the ear, nose and throat, and for cases of dentistry. In addition to these services there is a surgical service for boys, an obstetrical and a gynecological service, and a pediatric service. There is also a Pasteur Clinic for all races, ages, and sexes.

MILLIKEN MEMORIAL

The advantages of the Charity Hospital, as one of the greatest schools in the world for practical instruction, were further increased in 1899 by the addition of the Milliken Memorial, a model building for the accommodation of two hundred sick children.

THE DELGADO MEMORIAL

The Delgado Memorial was completed and formally dedicated at the Charity Hospital with appropriate ceremonies on December 19th, 1908, and was opened for the reception of patients on April 19th, 1909. This beautiful building was "erected in loving memory of Samuel and Virginia Delgado, for the relief of the suffering poor of both sexes who

may be benefited by the Science and Art of Surgery." The Memorial occupies a conspicuous place on the grounds of the Charity Hospital with the entrance facing on Tulane Avenue. It is a five story building, strictly fire-proof. It was erected and equipped at a cost of two hundred thousand dollars.

The honor of naming the two chief operating rooms the "Ernest S. Lewis" and the "Rudolph Matas" operating rooms was conferred by Mr. Delgado on these two members of the Tulane Faculty, with the concurrence and approval of the Board of Administrators of the Hospital, not only as an expression of his personal friendship for these gentlemen, but of his appreciation of their long service as visiting surgeons and teachers at the Charity Hospital.

The greatest significance is attached to Mr. Delgado's generous donation from the point of view of medical education and progress, and he has specifically stated that the operative material of the Memorial shall always be at the disposition of the heads of the departments of Surgery and Gynecology in Tulane, and for these departments the building was erected and arranged.

Upon the death of Mr. Isaac Delgado, on January 4, 1912, the further sum of \$100,000 was left in trust with the provision that the income should be administered in carrying out the original wishes of the testator when the Memorial was erected. That this might be done in the further interest of the School of Medicine the trustees named were Professors Matas and Lewis and the Dean of the School of Medicine and their successors.

CLINICAL INSTRUCTION

The professors and clinical instructors are attending physicians or surgeons of the various hospitals and visit their wards and clinics daily, accompanied by the students, who are thus brought into immediate contact with the sick and wounded and are taught practically, including all modern methods of clinical, microscopical and laboratory diagnosis, and surgical procedure and technic. Surgical operations are performed and lectures delivered upon selected cases in the amphitheaters of the hospital.

Special clinical instruction is given to all students of the third and fourth years, who are for this purpose divided into sections and assigned to the professors and clinical instructors in charge of wards and outdoor clinics of the hospitals. The classes thus formed interchange courses so that all students enjoy equal advantages. Compe-

tent assistants aid the clinical teachers in developing this system of instruction.

Lectures on all branches where demonstrations of cases are practicable and of service, will be delivered in the Hospital amphitheaters daily.

Sections of the classes are taught gross and special pathology by practical demonstrations in the autopsy rooms of the Pathological Department of the Hospital and in the special laboratories of the Hutchinson Memorial.

HOSPITAL INTERNS

CHARITY HOSPITAL

The administrators of the Charity Hospital select annually, ten to twenty resident interns *from the more meritorious members of the graduating class of the Tulane School of Medicine* upon the recommendation of the Dean. These interns are entitled to board and lodging in the institution free of charge and enjoy many privileges and opportunities incident to a two years' incumbency.

TOURO INFIRMARY

Eight or more interns, who must also be graduates, are selected annually by the Administrators of the Touro Infirmary, upon the recommendation of the Dean of the School of Medicine.

This institution is representative of the highest type of hospital detail and equipment in all of its departments. It is non-sectarian in its charity, though the administration is directed by prominent members of the Jewish community. The visiting staff is derived from the best available men in all branches, and the Faculty of the School of Medicine of Tulane is well represented.

Through the courtesy of the Board and of the medical staff, surgical operations and other clinics at Touro Infirmary are witnessed by groups of men from the third and fourth year classes, regularly assigned to the professors and instructors in various clinical branches.

While this institution provides for the care of private patients, its charity wards and extensive clinics care for thousands of cases annually.

EXTERN SERVICE

During the summer months students who have satisfactorily completed their third year and who have registered for the next session may receive appointments as externs at the Charity Hospital and at the Touro Infirmary on recommendation of the Faculty.

OTHER HOSPITALS AVAILABLE

A number of other Hospitals in Louisiana, Alabama, Mississippi, Texas and other States, offer excellent experience, appointments to which are obtained by meritorious students upon the recommendation of the Faculty of the Tulane School of Medicine.

A number of Tulane graduates avail themselves of the ship services out of New Orleans, which are available during the summer months.

REQUIREMENTS FOR ADMISSION

Women are admitted to all classes on the same terms as men.

The requirements for admission to the School of Medicine of the Tulane University of Louisiana are as follows:

ADMISSION TO FRESHMAN CLASS

1. Certificate of Graduation from an acceptable High School with four years of study and fifteen units, three of which must be in English, two and a half in Mathematics, two in Latin, Greek, French, Spanish or German; one in History; the remainder (six and a half units) in acceptable credits may be elected among the following:

1. English Composition	2	16. Physics	I
2. English Literature	I or 2	17. Chemistry	I
3. Elementary Algebra	1½ or 2	18. Biology (Bot. and Zool.)	I
4. Plane Geometry	I	19. Botany	I
5. Solid Geometry	½	20. Zoology	I
6. Trigonometry	½	21. Physiology	I
7. Latin	2, 3 or 4	22. Physiography	I
8. Greek	2 or 3	23. Freehand Drawing	I
9. French	2 or 3	24. Mechanical Drawing	½
10. Spanish	2	25. Wood-working	½
11. German	2 or 3	26. Foundry Work.	½
12. Ancient History	I	27. Forge Work	I
13. Med. and Mod. Hist.	I	28. Machine Tool Practice	I
14. English History	I	29. Comparative Anatomy	I
15. American History	I	30. Pharmacy	I or 2

No science credits in the high schools will be allowed without clear statement of laboratory periods.

2. Certificate showing credits for two years of acceptable college work of not less than 60 semester hours, which must include one year of Biology, one year of Physics, one year of General Chemistry, and one-half year of Organic Chemistry; one year of English, and one year of a modern foreign language.

(For the Session of 1919-1920, Organic Chemistry may be carried as a condition.)

A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recitation period per week, each period to be not less than fifty minutes net, at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period.

To meet these requirements, The Tulane University of Louisiana offers, in the College of Arts and Sciences, to graduates of acceptable high schools—

Pre-Medical Course Not Leading to B. S. Degree

FIRST YEAR

English 1. Rhetoric, Composition, Literature.....	3
Latin 1,* Greek 1,* French 1, or Spanish 1.....	3
Chemistry 1. General.....	5
Zoology 1; Botany 1,**.....	5
Drawing 1. Freehand.....	1
Elective... ..	3
Physical Training	1

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SECOND YEAR

French 2 or Spanish 2.....	3
Physics 1. Experimental.....	5
Zoology 2. First term	}.....
Chemistry 5. (Organic) Second term	
Psychology or History.....	3
Elective.....	3

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This course is arranged for the purpose of preparing the intending student of medicine who may enter the Freshman class in two years, upon completing the subjects as outlined.

COMBINED COURSE FOR THE B. S. AND M. D. DEGREES

A Combined Course is also offered in the College of Arts and Sciences through which a student, after two years of college work and two years in the regular medical course, may obtain the Bachelor of Science degree, and, after two years more in the School of Medicine, the degree of Doctor of Medicine may be received.

To obtain the degree of Bachelor of Science, the candidate must have spent at least one year in the College of Arts and Sciences of the Tulane University of Louisiana and must have completed at least fifteen hours, of those required for the degree, in the College of Arts and Sciences.

Pre-Medical Course Leading to B. S. Degree

FIRST YEAR	HOURS
English 1. Rhetoric, Composition, Literature.....	3
Latin 1,* Greek 1,* French 1, or Spanish 1.....	3
Mathematics 2, 3. Trigonometry, Analytic Geometry.....	3
Chemistry 1. General.....	5
Zoology 1; Botany 1**.....	5
Drawing 1. Freehand.....	1
Physical Training.....	1
	<hr/> 21
SECOND YEAR	
English 2. English Literature.....	3
French 2 or Spanish 2.....	3
Physics 1. Experimental.....	5
Zoology 2. First term	5
Chemistry 5. (Organic) Second term }	
Psychology or History.....	3
	<hr/> 19

*Latin 1, or Greek 1, may be taken by those who have had two years of a modern language in the high school.

**The course in Biology must include at least one-half year of Botany and one-half year of Zoology.

REGISTRATION FOR PRE-MEDICAL COURSES

As these pre-medical courses are offered to students preparing to study medicine and as the arrangement of studies and classes will be made to that end, all students applying for these courses are required to register for the same with the Dean of the Tulane School of Medicine. All inquiry concerning such courses and the preliminary arrangements for such should be directed to the School of Medicine.

REQUIREMENTS FOR ADVANCED GRADES

Official evidence showing that the holder has attended one full medical course in any regular, recognized medical college, is essential

to matriculating for a second year course; and every student, prior to matriculating for a third or fourth year course, shall be required to show by similar evidence that he has previously taken two or three annual courses in medicine. To be credited with a full course, at least eighty per cent of the session must have been attended.

Students from other colleges entering the second, third, or fourth year will be required to present evidences of preliminary education, conforming to the requirements of admission to the Freshman Class at this school.

Students from other colleges, who may enter any year of this school, will be required to present a clear statement of passing credits on all subjects of years prior to the year in which admission is sought and such credits must cover the subjects and courses as given at Tulane and as outlined in the synopsis and tables given below.

Honorable dismissal from school of previous attendance is required.

Students from Class B Colleges will be required to satisfy the entrance requirements and to pass examinations on all branches covered in the Tulane curriculum of the first two years. Not more than two year's credit will be allowed students from Class B Schools.

SYNOPSIS—STUDIES AND EXAMINATIONS

The full course of Lectures and all Laboratory Courses will begin Wednesday, October 1, 1919.

First Year (Freshman) (a)—Chemistry, anatomy; chemistry, histology, embryology, organology, osteology, minor surgery, practical anatomy (dissecting), in their laboratories; physical training.

(b) Examinations will be required during or at the close of the first year on branches taught in this year, embraced by the departments of chemistry and anatomy. Records of satisfactory attendance and knowledge in the laboratories of chemistry, of histology, embryology and organology, of practical anatomy, and of physical training will also be required.

Second Year (Sophomore) (a)—Anatomy, physiology, materia medica and pharmacology with their laboratories; physical diagnosis, and minor surgery, in their laboratories; neurology, topographical anatomy, physiology, pharmacology, pathology and bacteriology, in their laboratories.

(b) Examinations will be required during or at the close of the second year on the branches taught in this year, embraced in the departments of anatomy, physiology, of materia medica and pharmacology, physical diagnosis, pathology and bacteriology and of minor surgery. Records of satisfactory knowledge and attendance in the laboratories of anatomy, of minor surgery, of physiology, of pharmacology, and of pathology and bacteriology, will also be required.

Third Year (Junior) (a)—Theory and principles of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations in normal labor), and clinical instruction in those branches, gross pathological anatomy, physical diagnosis; therapeutics; clinical medicine, hygiene, diseases of the eye, of the nervous system; psychiatry, diseases of the skin, genito-urinary and venereal diseases, diseases of children; hygiene, pathology and clinical medicine in these laboratories.

(b) Examinations will be required during or at the close of the third year on the branches taught in this year and embraced by the departments of the practice of medicine, of therapeutics, of surgery, of obstetrics, of diseases of children, and of pathological anatomy, clinical medicine, hygiene, physical diagnosis, diseases of the eye, diseases of the skin, of the nervous system, psychiatry, genito-urinary and venereal diseases. Records of satisfactory attendance and knowledge from the laboratories of hygiene, pathology and of clinical medicine will be also required.

Fourth Year (Senior) (a)—The practice of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations), of therapeutics, and clinical instruction in those branches, psychiatry, diseases of the nervous system, of children, of the skin, of the eye, ear, nose, and throat, orthopedics, medical jurisprudence and toxicology; pathology, clinical medicine, tropical and preventive medicine, and operative surgery in these laboratories.

(b) Examinations will be required during or at the close of the fourth year, on the branches taught in this year, embraced by the departments of the practice of medicine, of therapeutics, of tropical and preventive medicine, of surgery, of obstetrics, of pathology, of gynecology, of the diseases of children, of psychiatry, diseases of the nervous system, of the skin, and of the eye, of the ear, nose, and throat, of orthopedics and of medical jurisprudence. A record of

satisfactory attendance and knowledge from the laboratories of clinical and tropical medicine, pathology and of operative surgery will also be required.

Physical Training: *Male students in the School of Medicine must satisfy the scheduled hours in physical training, and obtain a passing grade from the physical director, showing credit for one year's work in the Freshman class. Students offering established credits from other institutions may be excused if such credits satisfy the requirements of this institution, but such credits will not exempt them from payment of the required fee.*

TABLE OF SUBJECTS EACH YEAR

FIRST YEAR

Anatomy

Gross Anatomy }
Osteology }
Embryology
Histology
Organology

Chemistry (*Physiological*)

Didactic
Laboratory

Physical Training

SECOND YEAR

Anatomy

Neurology
Topographical Anatomy

Bacteriology

Minor Surgery

Pathology

Pharmacology

Physical Diagnosis

Physiology •

THIRD YEAR

Clinical Surgery (*Minor*)

Diseases of Children

Diseases of Eye

Diseases of Nervous System

Diseases of Skin

**Genito-Urinary and Venereal
Diseases**

Gynecology

**Hygiene and Preventive
Medicine**

**Laboratory of Clinical Medi-
cine**

Medicine

Obstetrics

Pathology

Physical Diagnosis

Psychiatry

Surgery

Therapeutics

FOURTH YEAR

Diseases of Children

**Diseases of Ear, Nose and
Throat**

Diseases of Eye

Diseases of Nervous System

Diseases of Skin

Gynecology

**Laboratory of Clinical Medi-
cine**

**Medical Jurisprudence and
Toxicology**

Medicine

(*including Physical Diag-
nosis, Internal Medicine,
and Tropical Medicine.*)

Obstetrics

Operative Surgery

Orthopedics

Pathology

Psychiatry

Surgery

Therapeutics

REMOVAL OF CONDITIONS

Students of the first three years who have attended any session and failed to pass satisfactorily the examinations required for that session, and students from other colleges who may be conditioned at entrance, may stand the examinations for the removal of such conditions, at the Fall examinations held for that purpose.

Any student failing on two subjects in the Freshman year shall be required to repeat the year. Any student with one failed subject may remove that subject at the fall examination for conditioned students or may carry one condition into the Sophomore year, with the understanding that said condition must be removed before the beginning of the next session following.

Any student failing on three subjects in the Sophomore year shall be required to repeat the year. Any student with two failed subjects may remove these at the fall examination for conditioned students. If only one subject is removed the student may advance to the Junior year, with the understanding that the remaining condition must be removed before the end of the Junior year. *In the event that neither of the two conditions are removed, the student cannot advance to the Junior year.*

ALL SUBJECTS OF PREVIOUS YEARS MUST HAVE BEEN PASSED, BEFORE ADMISSION TO THE SENIOR YEAR IS ALLOWED.

Any student, who, during his courses in this college, convicts himself of defective general education, shall be required to remove this disability before he is graduated.

QUALIFICATION COMMITTEES

A committee from the Faculty of the first two years regularly reviews the work of all those students who are deficient, in order that the Faculty may pass upon their fitness to advance or to remain in the school. A like committee from the Faculty of the last two years follows a similar plan for the students in the upper classes.

SCHEDULE OF CONDITION EXAMINATIONS FALL OF 1919

		9-11 A. M.	1-3 P. M.
September			
Thursday	11	Skin Diseases	Psychiatry; Dis. of Nervous System.
Friday	12	Medicine; Therapeutics	Obstetrics and Gynecology.
Saturday	13	Surgery	Genito-Urinary and Venereal Dis.
Monday	15	Hygiene. Embryology	Clinical Surgery, Diseases of Children.
Tuesday	16	Clinical Medicine. Topographical Anatomy	Pathology and Bacteriology.
Wednesday	17	Gross Anatomy (parts)	Histology
Thursday	18	Organology	Physiology.
Friday	19	Chemistry	Minor Surgery.
Saturday	20	Physical Diagnosis.	Mat. Medica and Pharmacology.
Monday	22	Diseases of the Eye.	Gross Anatomy (entire body). Neurology

NOTICE—For condition examinations on any subject at any other time than as above scheduled, a charge of \$10 will be made for each examination. This charge must be paid by each student in advance of each examination.

SUMMER SCHOOL OF MEDICINE

For several years the Tulane School of Medicine has provided instruction for students of this department, for intending students from other colleges and for graduates in medicine.

While a considerable part of the work of this school relates to the subjects and courses covered in the regular curriculum, and is intended for purposes of review, the Summer School has always offered advanced work, including research, for students and physicians desiring such.

All students in the Summer School are required to register at the office of the School of Medicine at the Hutchinson Memorial, No. 1551 Canal Street.

The registration fee for each student is \$5, and the fees for individual courses vary. The registration fee will entitle each matriculant to visit the Charity Hospital and the Touro Infirmary, and will also register

the student, if otherwise qualified, for the next regular college term. Due notice is required, stating the intention of the student to take advantage of this double registration for one fee. **No student will be so registered for the regular term without such notice, and such registration will become effective only upon the personal presentation of the registration card of the Summer School within the first week of the opening of the regular session.**

The fees and detailed information for individual courses of the summer school are printed in the regular **Announcement of the Summer School of Medicine** (sent on request).

While the summer courses offered in this school are intended for review and advanced work, credit will be given wherever the work in any one department may justify it, and upon the recommendation of the head of the department in which the instruction is given.

Students from other schools with entrance conditions and conditioned students in the School of Medicine of Tulane may satisfy their conditions by courses in the Summer School covering deficiencies, and may be examined for such conditions by the heads of departments, who may pass upon the same at the conclusion of the summer courses. Grades obtained in such examinations will be duly credited.

The Summer School begins annually the first Monday after Commencement.

REQUIREMENTS FOR GRADUATION

Every candidate for graduation must be of good moral character, which includes good conduct while a student of the School of Medicine, must have attained the age of twenty-one years, and must have complied with all the educational requirements.

He must have attended, in a regular and reputable medical college at least 80 per cent. of each of four full year courses, of not less than thirty-two weeks each in four separate years; and the last of these courses must have been in this institution.

Candidates for graduation must have taken (1) the required courses in all subjects; (2) the required courses of practical anatomy, including the various laboratories; (3) the required course in physiological chemistry; (4) prescribed laboratory courses of histology, organology, physiology and of pathology, bacteriology, and clinical medicine and of hygiene and tropical medicine; (5) one course in the laboratory of pharmacology; and (6) one course in a laboratory of operative sur-

gery. They must submit evidence of satisfactory attendance and knowledge of all these laboratory courses.

Each student is required to witness at least ten cases of labor before graduation.

Every candidate for graduation must have paid all college dues including the graduation fee, and must pass satisfactory examinations before the members of the faculty on all branches scheduled in the years of his attendance.

A candidate for graduation, who fails to pass satisfactory final examinations after two annual trials, will not be examined again. Rejected candidates are required to repeat the entire fourth year.

ATTENDANCE ON MORE THAN FOUR ANNUAL COURSES

Students who have attended and paid for all of the four required courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the clinics upon payment of matriculation and laboratory fees.

TABLE OF FEES—SESSION 1919-1920

	Matriculation	Infirmary Fee	Gymnasium-Athletic Fee	Breakage Fee	Tuition	Graduation Fee	Totals
Pre-medical Years—each	\$5	\$5	\$10	\$10	\$150		\$180
Regular Course:							
First Year	\$5	\$5	\$10	\$10	\$170		\$200
Second Year	5	5	10	15	165		200
Third Year	5	5	5	10	180		205
Fourth Year	5	5	5	10	180	\$30	235
	\$20	\$20	\$30	\$45	\$695	\$30	\$840

Considering the exceptional advantages for practical instruction in hospital and laboratories and the constant care and labor bestowed, the charges are as low as are compatible with the superior advantages given.

The Faculty reserves the right to increase the above fees for any year of the four-year course after the session of 1919-20.

All fees are payable on admission except the graduation fee of \$30, which is not accepted earlier than January 1, nor later than March 31. Ten dollars of this fee will be retained in the case of candidates for graduation who may fail to be graduated, or who may withdraw their applications after the final examinations.

For the accommodation of students, the payment of the tuition fee may be made in two instalments, one-half at entrance and one-half February 1. *For such accommodation a delinquent fee of two dollars will be added to the second payment.* Other fees, as stated above, are payable on admission.

MATRICULATION FEE

Every person, whether student or graduate, admitted to the privileges of this institution, must pay a matriculation or registration fee of \$5 for every session or part of session he may attend; and he will not be entitled to admission to any classes or clinics until registered.

GYMNASIUM-ATHLETIC FEE

A gymnasium-athletic fee of \$10 in the Pre-medical, Freshman and Sophomore years, and \$5 in the junior and senior years, will be charged all male students for the services of physical director, use of athletic facilities and privileges, for required gymnasium courses, etc. Students excused from Physical Training, through prior credit or for other reasons, shall not be exempt from the payment of the gymnasium-athletic fee.

INFIRMARY FEE

An infirmary fee of \$5 will be charged each session, which will cover all hospital care in the College Infirmary and will provide for *reasonable hospital expenses in cases of ordinary illness, under the rules of the infirmary committee.* This fee applies to all non-resident students and to such resident students as may avail themselves of the privilege by payment of the fee at time of registration.

MICROSCOPE

Each student entering the Medical School shall be required to have his own microscope.

BREAKAGE FEES

A breakage fee must be deposited for each course in the laboratories of anatomy, chemistry, physiology, pharmacology, pathology and bacteriology, hygiene and clinical medicine, to reimburse for breakage and needless injuries to college property. Any unused part of such fee will be refunded if proper demand is made at the end of each session, and before the beginning of the next session.

FEES FOR GRADUATES

Graduates of this College who have paid for all of the required four courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the clinics without charge for the professors' fees, but they will be charged the matriculation fee and the fees for all laboratory courses they may attend.

The fees for *regular laboratory courses* taken apart from regular courses are uniformly fixed at \$25. *Special laboratory courses*, experimental or research, may be arranged, for which special rates will be charged.

Students who do not attend full courses, but only partial or special courses, must pay for the tickets of the professors whom they may attend, \$25 each.

Graduates of other recognized medical colleges, who are not candidates for the M. D. degree of this college, must pay, in order to attend all lectures and the hospital during a first session, the annual matriculation fee, \$5, and an additional tuition fee of \$100. For each regular laboratory course taken the additional fee of \$25 will be charged. For any subsequent session the \$100 fee is not charged. If candidates for the M. D. degree, such student physicians must pay the regular fees.

REFUND OF FEES

Students who may withdraw for satisfactory reasons during the session and before March 15, will be refunded the unused balance of the fees for the session. *Prompt written notice at time of withdrawal is required to make this effective.* No refund will be made after March 15.

OTHER ANNOUNCEMENTS

State Board Examinations. The Louisiana State Board has announced that all students of **Class A** colleges, completing the second, or third year, and being certified by the proper authorities as having finished the required courses in the primary branches of Anatomy, Chemistry and Physiology, will be permitted to take the Board examinations on these subjects, and, if successful, these examinations will be credited towards final licensure.

Tulane Graduates are Eligible to Fellowships in the Royal College of Surgeons of England, and the Royal College of Physicians of London. Official notice has been given the Tulane College of Medicine that its medical graduates will be received for fellowship examinations.

GENERAL INFORMATION

Information about houses for boarding and lodging may be obtained from the Registrar or Clerk. The price usually paid by students is approximately \$30 per month. A list of desirable boarding houses is prepared shortly before the opening of the session and may be consulted by students on their arrival at the college.

Students in the first two years who are non-residents may reside in the dormitories on the Campus.

Applications for dormitory rooms should be made as early as possible, before the term opens, to the Registrar, Gibson Hall, Tulane University. Application must be accompanied by a deposit of five dollars to secure accommodation.

On request to the Dean's office parents or guardians will be furnished with students' records, *at the end of each session*.

Students receiving remittances from home are advised to obtain them in checks on New Orleans banks or in Post Office or Express money orders.

Correspondence intended for students of this department in the first and second years should be addressed "Richardson Memorial, Tulane Campus," Station 20, New Orleans, La.; for students of third and fourth years, "Hutchinson Memorial", 1551 Canal Street, or P. O. Box 770, New Orleans, La.

For Bulletin of the School of Medicine containing detail information as to courses of study, etc., address:

**Dr. Isadore Dyer, Dean, School of Medicine,
The Tulane University of Louisiana,
P. O. Box 770, New Orleans, La.**

REGULAR COURSES OF INSTRUCTION

DEPARTMENT OF ANATOMY

PROFESSOR IRVING HARDESTY, A. B., Ph. D.

PROFESSOR HENRY BAYON, A. M., M. D.

ASSISTANT PROFESSOR JOSEPH M. THURINGER, M. D.

ASSISTANT PROFESSOR WILMER BAKER, M. D.

Dr. Thomas Benton Sellers, Instructor.

Dr. Richard S. Crichlow, B. S., Instructor.

Mr. Harold Cummins, A. B., Instructor.

Dr. Charles H. Voss, A. B., Assistant.

Mr. Samuel F. Elder, Student-Assistant.

Mr. Joseph Sicomo, Student-Assistant.

LABORATORIES AND MUSEUM OF ANATOMY

The work in this department covers both Gross and Microscopic Anatomy and Embryology. The Laboratories for both divisions of the work and the Museum of Anatomy are in the Richardson Memorial Building. The laboratories are commodious, especially adapted and well equipped for the work and more equipment is being added. The museum contains a complete series of preparations illustrating human osteology and a large collection of actual dissections made by the Curator of the Museum, Professor *Emeritus* Edmond Souchon, who devotes his time gratis to the Medical Department and who has made this remarkable and useful exhibition of anatomical specimens.

GROSS OR SYSTEMATIC HUMAN ANATOMY

The courses in Gross Anatomy are offered in practical work almost entirely. Independent work on the part of the student is encouraged and stimulated as far as possible. There are no formal lectures accompanying dissection. Short laboratory talks and explanatory demonstrations will be given to groups of students in the dissecting room from time to time as occasion may require and the student at the table is subjected to questions aimed at testing the thoroughness of his work. Short conferences and quizzes are held weekly with sections of the class. One hour each week the entire class in Anatomy is assembled for conferences

covering the structure of the body in general and the history of Anatomy. Every effort is made to induce the student to acquire actual knowledge of the construction of the body, visual images rather than word pictures of the various structures and their interrelationships. Aid in grasping topographical relations will be afforded by models, wet preparations and serial sections of the body and, after the required dissections are completed, a shorter course in Topographical and Applied Anatomy is offered as a means of summarizing and systematizing the entire work.

REQUIRED COURSES

The work in Gross Anatomy falls into the following divisions:

1. **Osteology and Arthrology.** (Profs. Baker and Bayon and Assistants). Students are provided with skeletons in boxes and bones which they may take to their rooms. Accurate drawings of some of the typical bones will be required, which must be fully labeled and handed in for correction. The osteology of each part of the body is studied, accompanying the dissection of that part.

2. **Head, Neck and Thorax.** (Profs. Baker and Bayon and Assistants.) 197 hours during the first year.

3. **Pelvis and Abdominal Viscera.** (Profs. Baker and Bayon and Assistants.) 137 hours during the first year.

4. **Lower and Upper Extremities.** (Profs. Baker and Bayon and Assistants.) 147 hours during the first year.

5. **Topographical and Applied Anatomy.** (Prof. Bayon and Dr. Sellers.) The intact body, serial sections of the body, models and special dissections will be used in this course with the special intent to enable the student to become more familiar with structural interrelations and to assemble and systematize information obtained in the preceding dissections. Sketches of certain of the sections are required, labeled as to locality and the names of the structures represented, and, from the sections and sketches, the student is asked to construct a projection of the head and trunk, with the principal organs in position. Open only to students who have satisfactorily dissected the entire body. Three laboratory periods (9 hours) per week, including one quiz per week, second trimester.

MICROSCOPIC ANATOMY

In this work the various tissues and organs of the body are studied from both the embryological and anatomical points of view, emphasizing their differentiation and elaboration from the developmental into the adult form and their structural peculiarities and grada-

tions. In order to bridge the usual gap between gross and microscopic anatomy, the study of a tissue or organ in courses 7, 8 and 9, is frequently begun with the examination of material in the fresh state, using teasing methods and free-hand sections. The more detailed studies are made from specimens prepared by methods designed to show their distinguishing microscopic features. The routine sections are prepared by the Technical Assistant of the department and are only mounted by the student. A small experience is afforded in the use of technical methods but not enough to thoroughly familiarize the student with the details of the different methods employed in the preparation of tissues for study. Drawings of the preparations under the microscope are required and, wherever possible, from preparations of human material. In Embryology and on the completion of a group of closely related structures in Histology and Organology, the student is required to hand in his drawings covering that group, neatly mounted in correct sequence and fully labeled as to the subject and the detailed structures shown. The drawings are graded and returned.

6. Embryology. (Professor Thuringer and Assistants.) This course covers briefly the earlier stages of development and the organo-genesis of the vertebrate embryo, with the descriptive work based upon what is known of the similar processes in man. The student is given experience in the fixing, preserving, embedding and staining of material. The phenomena of fertilization and cell division are studied, followed by the origin and formation of the primary germ layers and the tissues derived from them, and then the origin and elaboration of the organs of the body is taken up. In the lecture work especial attention, in addition, is given to the formation and significance of the foetal membranes, the determination of the age of human embryos, the attachment, orientation, nutrition and pathology of embryos and fetuses. Vestigial structures, inclusions and the causes which underlie the production of monsters are considered. First year, three laboratory periods (3 hours) and three lectures per week during second trimester.

7. Histology. (Prof. Hardesty and Assistants.) Here is considered the anatomy of the cell, its varieties of form, the processes of its proliferation, and its differentiation into specialized types. Then follows the detailed study of the four fundamental tissues, their varieties as composed of cells and cell products and as derived from one or the other of the primary germ layers. First year, three

laboratory periods (8 hours) and three lectures per week, first trimester.

8. Microscopic Organology. (Prof. Hardesty and Assistants.) The various organs comprising each functional apparatus are considered as to their form and the arrangement, number and variety of the fundamental tissues composing them, and as to their structural relations in the functional apparatuses they comprise. The studies are usually begun with the observation *in situ* of a group of organs comprising an apparatus or system. First year, three laboratory periods (9 1-2 hours) and three lectures per week during third trimester. A satisfactory knowledge of Histology (course 7) is prerequisite to this course.

9. Neurology. (Prof. Hardesty and Assistants.) This is a course especially devoted to the macroscopic and microscopic architecture of the central nervous system and organs of special sense. The neurone, neuro-epithelium etc., studied in Histology, are considered as they take part in the construction of the nervous apparatus with especial effort toward tracing the origin, termination, course and arrangement of the principal pathways of nerve impulses. Attention is given to the development and growth of the nervous system. Second year, three laboratory periods (9 hours, including one quiz per week) and three lectures during first trimester.

Text-Books: *Gross Anatomy*—Morris (5th edition); Cunningham (4th edition); Piersol; Atlases of Toldt, Spalteholtz and Sabotta-McMurrich; Davis' Applied Anatomy; Beesley and Johnston's Surgical Anatomy; Gray (Howden's); Cunningham's Manual; Barker's Manual.

Embryology—Human Embryology (Keibel and Mall); Text-book of Embryology (Bailey and Miller); Text-book of Embryology (Pren-tiss); The Development of the Human Body (McMurrich), and Minot's Laboratory Text-book of Embryology.

Microscopical Anatomy—Stöhr (Lewis) (2nd edition); Jordan and Ferguson; Piersol; Bailey; Schäfer's Essentials (7th edition); Quain, 11th edition, vol. II, part I; part III, Morris' Anatomy (5th Edition); Villiger's Gehirn und Rückenmark; Hardesty's Laboratory Guide; appropriate parts of Morris (5th edition) and the atlases used in Gross Anatomy.

GRADUATE AND OPTIONAL COURSES

10. Review Course in Gross Anatomy. (Profs. Bayon and Baker.) A study-room course is offered primarily for practitioners of medicine, but also for upper classmen who have completed the required work in dissection. It will consist of the study of museum specimens, models, wet preparations and sections of the body in the possession of the Department of Anatomy. No credit toward the degree of Doctor of Medicine is given for this course. Hours may be arranged to suit applicants.

11. Microscopic Organology. (Prof. Hardesty.)

Advanced study of the structures comprising either the circulatory apparatus, the digestive apparatus, or the urino-genital apparatus, is offered physicians and graduate students who wish to become more familiar with these subjects than is usual after taking the routine courses dealing with them, or candidates for the higher degrees who desire to take major or minor subjects within the Department of Anatomy.

One term. Six hours a week.

12. Neurology. (Prof. Hardesty.)

Special study of the histology and macroscopic and microscopic architecture of the central nervous apparatus.

One term. Five hours a week.

13. Special Anatomy of the Auditory and Optic Apparatuses. (Prof. Hardesty.)

This course is offered primarily for graduate students, but is elective by others especially interested in the subject and qualified to take it. It will deal with both the gross anatomy and detailed microscopic structure of the parts comprising the two sense organs mentioned and, in addition, will consider their pathways, connections and relationships within the brain.

Hours will be arranged to suit applicants.

One term. Five hours a week.

14. Advanced Course in Gross Anatomy.

A course offered primarily for graduates in medicine, but may be taken by others who have completed the required work in dissection. It is designed to afford opportunity for a more detailed study of the macroscopic anatomy of any part of the body desired, or for an advanced study of any of the systems of organs comprising a Functional Apparatus. The viewpoint from comparative anatomy will be suggested.

RESEARCH IN ANATOMY

Advanced students of Anatomy and graduates sufficiently qualified are urged to undertake the investigation of original problems under the direction of the head of the department and members of the staff. Opportunity is given to gain experience in special histological technic and in the construction of papers for publication. Results meriting it will be published. Hours arranged to suit applicants.

DEPARTMENT OF PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

PROFESSOR WALTER EUGENE GARREY, Ph. D., B. S., M. D.

ASSISTANT PROFESSOR F. P. CHILLINGWORTH, M. D.

*ASSISTANT PROFESSOR RALPH HOPKINS, A. B., M. D.

ASSISTANT PROFESSOR EPHRAIM MACDONALD EWING, A. M.,
B. Sc., M. D.

Dr. Adolph DeC. Henriques, Instructor.

Mr. Richard Ashman, Litt. B., Instructor.

Mr. Frank W. Morgan, Phar. D., Demonstrator.

Mr. Arthur Vidrine, A. B., Student Assistant.

Mr. John M. Danneker, Student Assistant.

1. Didactic Course. (Prof. Garrey and staff.) For second year students. This course includes lectures with co-ordinate demonstration and quizzes. It is designed to give emphasis to those fundamental facts and principles which are considered essential to an adequate treatment of human physiology. Special emphasis is placed upon those aspects of the subject which find a practical application in subsequent medical studies.

The general subdivisions of the lecture work include an introductory bio-dynamic study, dealing with the physico-chemical analysis of vital activity and tissue reactions in general, followed by a more intensive study of muscle and nerve, central nervous system, senses, blood, heart and circulation, respiration, mechanical factors of digestion, secretion, nutrition, the endocrine functions, and reproduction. (120 hours.)

2. Laboratory Course. (Prof. Garrey and staff.) For second year students. This course is designed to give the student an objective knowledge of physiology. This is attained by seeing the living tissues at work and by using the methods which make the

*Absent on Military Duty.

analysis of the activities accurate and quantitative. In order to emphasize the methods applicable to clinical examinations, special experiments are introduced in which students serve as the subjects of experiments illustrating certain phases of the physiology of circulation, respiration, the nervous system, and senses. Where this is not feasible, lower animals are used, as in the study of muscle, nerve and the nervous control of the organs of circulation, respiration, and secretion.

The laboratory equipment admits of the work being conducted by groups of two. Accurate notes of all experiments are required of each student; these with the graphs obtained form a permanent record of the work done. (126 hours.)

3. Demonstrations. (Dr. Henriques) The laboratory course is supplemented by a course of X-ray demonstrations illustrating various physiological processes in man. (20 hours.)

4. Research. (Prof. Garrey.) Investigation of special problems may be undertaken by those qualified to do graduate work. This work is accredited toward advanced degrees in the Graduate School.

Text-books—Howell, *Text Book of Physiology*; Stewart, *Manual of Physiology*; Tigerstedt's *Physiology*, translated by Murlin; Starling, *Human Physiology*.

Physiological Chemistry First Year	(Professor Ewing and staff.) Lectures, recitations and laboratory work covering those portions of the subject which are of greatest importance to the student of medicine. (240 hours.)
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The laboratory work includes detailed study of the chemistry of the carbohydrates, fats and proteins; the analysis of the more important animal tissues and fluids; a study of the various digestive enzymes; the analysis of gastric contents; of milk; of urine, blood; and such other matters as are encompassed in physiological, clinical and pathological chemistry.

Every student assigned to the chemical laboratories is fully equipped and supplied with all apparatus and chemicals, but there will be a charge for breakage and for unnecessary waste of material.

Text-books—Mathew's *Physiological Chemistry*; Hawk, *Physiological Chemistry*; Hammersten, *Physiological Chemistry*

DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

PROFESSOR J. T. HALSEY, M. D. (Pharmacology, Therapeutics and Clinical Medicine.)

PROFESSOR J. BIRNEY GUTHRIE, B. Sc., M. D. (Clinical Medicine.)

PROFESSOR OSCAR WALTER BETHEA, Ph. G., M. D., F. C. S. (Clinical Therapeutics.)

ASSISTANT PROFESSOR F. P. CHILLINGWORTH, M. D. (Pharmacology.)

PHARMACOLOGY AND THERAPEUTICS

The work in this department begins in the first term of the second year and continues until the end of the fourth year.

In the second year **Materia Medica** and **Pharmacy**, in so far as these subjects seem essential to the medical student, will be taught separately during the third term and in the second and third terms in immediate connection with the courses on Experimental and Systematic Pharmacology.

The hours devoted to this course will be equally divided between lectures and recitations and practical work in the laboratory.

Systematic Pharmacology (Professors Halsey and Chillingworth.) — This course will consist of about 60 hours of recitations, lectures, and demonstrations on the general principles of pharmacology and on the pharmacology and toxicology of the important and commonly used drugs and poisons. Here too the clinical significance and uses of these drugs will be discussed as far as seems advisable. Coincident with and in close relation to this course, will be given the course on:

Experimental Pharmacology (Professors Halsey and Chillingworth.) — The required work in this course will consist of laboratory exercises, in which the students will conduct for themselves a number of experiments illustrating the physiological and toxicological action of a number of the most important drugs.

Further work on experimental pharmacology may be carried on by those qualified to do graduate work, which may be accredited toward advanced degrees (Prof. Chillingworth.)

Dietetics (Professor Guthrie.) — Part of the course in the third year will be devoted to a consideration of the question of foods from the standpoint of prophylaxis and as applied to feeding the sick. In this course special stress will be laid on the feeding of

patients in such diseases as are treated exclusively by special dietetic measures.

Systematic Therapeutics (Professors Halsey, Guthrie and Bethea.)—During the third and fourth years, one hour a week will be devoted to lectures and recitations on the general and underlying principles of the treatment of various clinical conditions and of the chief diseases. In close connection with this course will be: **Therapeutic Clinics** (Professors Halsey, Guthrie and Bethea.)—For fourth year students.

These will be held weekly in the amphitheater of the Charity Hospital, patients being selected especially for their therapeutic interest. As far as is feasible, they will be chosen for their relation to the subjects treated in the course on systematic therapeutics and will be demonstrated and discussed by teachers and students with especial reference to the care and management of these and similar cases. Whenever the opportunity presents itself cases will be used which permit of demonstration in the amphitheater of special methods of treatment such as stomach or colonic lavage, giving of enemata, inunctions, hypodermic medication, massage, passive or resistance exercises, baths, packs, &c.

Bedside Therapeutics In the ward and out-patient work for fourth year students in the department of internal medicine, especial attention will be given by the various teachers to the too often neglected matter of treatment.

Prescription Writing Besides the usual instruction in this, which is interjected in all the above mentioned courses, a special course on prescription writing will be given by Professor Bethea during the fourth year.

Text-books — *Pharmacology* — Bastedo, Gottlieb and Meyer, Cushny.

Materia Medica and Prescription Writing—Bethea.

Therapeutics—A. M. A. *Handbook of Therapy*; Meara's *Infectious Diseases*. Reference, Forcheimer's System.

Dietetics—Friedenwald and Rührah; Carter's Diet Lists.

Psychotherapy—Dubois, *Psychic Treatment of Nervous Disorders*.

DEPARTMENT OF MEDICINE

PROFESSOR JOHN B. ELLIOTT, JR., A. M., M. D. (Theory and Practice of Medicine and Clinical Medicine).

PROFESSOR J. T. HALSEY, M. D. (Therapeutics and Clinical Medicine).

PROFESSOR GEORGE S. BEL, M. D. (Clinical Medicine).

PROFESSOR J. BIRNEY GUTHRIE, B. Sc., M. D. (Clinical Medicine).
 PROFESSOR CHARLES CASSEDY BASS, M.D. (Experimental Medicine).
 *PROFESSOR JOSEPH DEUTSCH WEIS, M. D. (Clinical and Tropical Medicine).

PROFESSOR ISAAC I. LEMANN, M. D. (Clinical Medicine).

ASSISTANT PROFESSOR CHARLES L. ESHLEMAN, A. B., M. D. (Clinical Medicine).

ASSISTANT PROFESSOR SIDNEY K. SIMON, A. B., M. D. (Clinical Medicine).

ASSISTANT PROFESSOR RANDOLPH LYONS, A. B., M. D. (Clinical Medicine).

ASSISTANT PROFESSOR FOSTER MATTHEW JOENS, M. D. (Laboratory of Clinical Medicine).

ASSISTANT PROFESSOR STANFORD CHAILLÉ JAMISON, M. D. (Clinical Medicine).

ASSISTANT PROFESSOR EDMUND MOSS, M. D. (Clinical Medicine).

LECTURERS AND INSTRUCTORS IN MEDICINE, CLINICAL MEDICINE.

Dr. H. P. Jones	Dr. J. C. Cole	Dr. M. Elizabeth Bass
Dr. M. E. Brown	Dr. W. A. Love	Dr. W. R. Metz
Dr. P. F. Murphy	Dr. H. J. Gondolf	Dr. W. S. Kerlin
Dr. R. Bernhard	Dr. H. C. Lochte	Dr. J. M. Bamber
Dr. L. J. Dubos	Dr. H. T. Simon	Dr. A. Mattes
Dr. D. A. Palmisano	Dr. B. R. Heninger	Dr. L. J. Menville

CLINICAL MEDICINE AND RADIOLOGY

Dr. E. C. Samuel	Dr. A. DeC. Henriques	Dr. E. R. Bowie
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THEORY AND PRACTICE OF MEDICINE

The course of study in internal medicine begins in the first half of the second year.

Second Year. (Professor Bel and Assistants.)—Professor Bel **Physical Diagnosis** gives a systematic lecture course on the elements of physical diagnosis once a week, illustrated by dissections, charts, diagrams, and demonstrations on the normal body. The relations of regional anatomy, physiology, and physics to diagnosis are impressed upon the student, and his knowledge is tested by quizzes at the end of each hour as well as by his practical work.

The practical course is given in the last fifteen weeks of the second year, three times a week. The class is divided into sections and the

*Absent on Military Duty.

members, under the guidance of Professor Bel and his assistants practice all the methods of physical diagnosis of the normal subject. Accurate technic and familiarity with the normal signs are the aims. Physical diagnosis of the lungs, heart, diaphragm and digestive tract is taught in conjunction with the use of the X-ray. Knowledge of the normal and variations of the normal is increased by visualization of the fluoroscope and skiagraphic images of the parts under consideration. The X-ray demonstrations will be conducted by Dr. Adolph Henriques.

Third Year. *Recitation Course.*—(Professor Simon and Drs. Gondolf, Lochte and Heninger.)

Theory and Practice of Medicine The class is divided into three sections. Lessons are assigned in a standard text-book and the efficiency of study ascertained by a quiz, covering in the course of the year the most important internal diseases. Prof. Simon quizzes on diseases of the digestive system.

Diagnostic Clinic (Professors Guthrie, Lemann and Lyons.) Once a week. In this the clinical phenomena that can be seen will be studied and their value in diagnosis considered. The clinical manifestations of pathological physiology will be studied, as far as possible.

Roentgen Diagnosis (Dr. Samuel.)—On Monday afternoons at the beginning of the first and second terms, respectively, Dr. Samuel will meet the fourth year students assigned to medicine in the Roentgen Laboratory of Touro Infirmary. Demonstrations of methods of thoracic Roentgen diagnosis will be given.

Ward Classes in Clinical Diagnosis (Professors Guthrie, Lemann and Lyons and their assistants.) Three times a week; seven weeks. Small sections, subdivided into smaller groups under the charge of the several teachers, practice on patients in the wards all the methods of physical diagnosis and other manipulations necessary in the practical investigation of cases. The main objects are accurate technic and familiarity with the common physical signs. The work in the class is wholly practical.

Examinations There will be no final examination in third year medicine. Promotion will be based on quiz grades, together with a practical and written examination at the completion of the term in medicine. Students conditioned in third year medicine will not be re-examined unless evidence of three months continued clinical work shall be furnished.

**Junior
Laboratory of
Clinical Medicine**

(Professor Bass, Director. Drs. Gondolf and Mattes.) In this laboratory the student is taught all the ordinary clinical laboratory work of use in the practice of Medicine and its various branches. The work is chiefly microscopical. The laboratory is under the direction of the Department of Medicine, but the clinical laboratory methods of all branches are taught. Laboratory diagnosis of Tropical Diseases is also taught here as a part of the course in Tropical Medicine.

Each student must furnish his own microscope with mechanical stage, blood counter and pipette, platinum loop, slides, cover-glasses, hemoglobin scale, centrifuge tubes and a few other items of small cost.

The course consists of laboratory exercises five times a week, two hours each, throughout one-half the session, excepting five weeks allotted to laboratory of hygiene for the period of assignment.

Students are thoroughly taught the best methods of examination of blood, urine, stools, sputum, pus, exudates and other material in order to prepare them to make practical application of laboratory diagnosis in their senior year and in connection with their clinical work. Special attention will be given to malaria parasites, hookworm and other ova in stools, etc.

Fourth Year.

Didactic Lectures Special subjects in internal medicine will be considered in didactic lectures as follows: Tropical Diseases; Diabetes, Gout and Obesity, Diseases of the Digestive System.

Clinical Lectures (Professors Elliott and Bel, and their assistants.) Forty-five lectures. Patients illustrating the most important diseases will be demonstrated in the amphitheater, the histories taken by members of the class read, the necessary examinations made, and the diagnosis, pathology and treatment discussed. The various diseases will be presented systematically, as far as possible.

Ward Work and Ward Classes (Professors Elliott, Bel, Weis, Jamison, Moss, and Drs. Cole, Bernhard, Bamber, Murphy and Dubos.) In sections of about ten the students will work in the medical wards daily for ten weeks. In the beginning of the daily period students will take histories, examine patients and their secretions and excretions. In the last hour they will make rounds, demonstrate and discuss cases, carry out details of treatment, and familiarize themselves with the daily life of patients sick in bed. The privilege of attend-

ing and using the clinics of the Anti-Tuberculosis League will be afforded students of the Senior Class.

Out-Patient Courses (Professors Eshleman, Simon and Jamison, and Dr. Bamber.) Students work in the medical dispensary six hours a week for five weeks, in small sections. In this connection, under Professor Simon, at the Touro Infirmary, each student is given practical experience in introducing the stomach tube. Gastric analyses are made, direct from the patient.

Senior Laboratory of Clinical Medicine (Professor Bass, Director. Professors Johns and Jamison.) Each student is assigned to this laboratory five hours during five days of each week for one-half of the session, and during the same time that he is assigned to the medical divisions of the course.

Students are required in this laboratory to make examinations of the blood, feces, urine, sputum, exudates, etc., of the patients assigned to them in their clinical work at the hospital and also of other instructive material brought to the laboratory.

Each student must furnish his own microscope with mechanical stage, blood counter and pipette, platinum loop, hemoglobin scale, test tubes, pipette, slides, cover-glasses and a few other items of small cost.

This laboratory course is an integral part of the course in medicine (and also tropical medicine), and proof of proficiency in the work will be required for graduation.

Life Insurance Examination Methods Professor Eshleman will give systematic instruction in the technic of Life Insurance examinations, meeting the class for eight periods.

Therapeutic Clinic (Professor Bethea). (See under *Therapeutics*)

Text-books—*Internal Medicine*, Osler; Anders. For Reference: Osler's Modern Medicine; Allbutt's System; Cabot, Differential Diagnosis; Bass and Johns Clinical Laboratory Diagnosis.

Diagnosis—Cabot, Hutchinson and Rainey. Clinical Laboratory Diagnosis. Bass and Johns.

Tropical Diseases—Manson; Stitt; Mense; Rogers; Deaderick.

Parasitology—Braun.

Lungs—Fowler and Godlee. *Heart*—McKenzie. *Intestines*—Schmidt and Strasburger.

Metabolism—Joslin.

Diseases of the Digestive System—Stockton; Bassler; Kemp.

SUMMER COURSE

During the summer months, to a limited number of students who have completed their third year, will be given the opportunity of visiting daily the service of Prof. Guthrie and Dr. Love in the Charity Hospital. There they will be allowed to assist in case-taking, physical examinations and clinical laboratory work for the service; and in addition they will be permitted to witness all autopsies held on cases from the service. Cabot's Clinical Diagnosis is recommended for reading during this vacation period.

No fees other than the matriculation fee in the Summer School are charged for this work.

PSYCHIATRY

PROFESSOR ROY M. VAN WART, B. A., M. D.

INSTRUCTORS

Dr. L. V. J. Lopez Dr. C. S. Holbrook Dr. C. V. Unsworth

The course in the third year will consist of lectures on general and special psychiatry.

The fourth year course will consist of clinical demonstrations to small sections of the class and a series of amphitheater clinics. Students will be expected also to write histories and report the results of the examinations of a limited number of cases.

The course will deal principally with the borderline types, and the early symptoms of mental disorders, such as are usually seen by the general practitioner.

Patients requiring institutional care will be demonstrated and the conditions which would lead to the adoption of this method of treatment, pointed out.

Text-books—*Psychiatry*, White; White and Jellife.

DISEASES OF THE NERVOUS SYSTEM

ASSISTANT PROFESSOR HENRY DASPIT

The course commences with the Third Year, is graded, and consists of didactic lectures, clinical teaching direct from the cases encountered in the outdoor clinics and wards of the hospital, class recitations and quizzes.

Third Year

The course during this year consists of one didactic lecture a week for the first half of the session and is outlined to cover the general and special anatomy of the nervous system, neuropathology, history taking, examination methods and the consideration of organic nervous disease.

Fourth Year Each class assignment is, by way of review, briefly taken over the architecture and gross anatomy of the nervous system, the mechanism of the reflexes, etc., is demonstrated, and the mode of origin of nervous symptoms is dealt with, etc., together with methods of examination employed in neurology, case and history taking, etc., preparatory to study of clinical cases. Patients are assigned to students who take histories, examine and make diagnoses, and prescribe under the supervision of the teachers. Cases are further studied before the class and students are led in clinical work and methods of diagnosis.

During the last half of the session, one didactic lecture weekly is devoted to the study of the topography of the central nervous system, focal diagnosis, and to the neuroses, neuropsychoses, and allied conditions less susceptible of clinical demonstration.

Text-books—*Nervous Diseases*, Starr; Church and Petersen; Dana.

DISEASES OF THE SKIN

PROFESSOR ISADORE DYER, Ph. B., M. D.

PROFESSOR HENRY E. MENAGE, M. D.

DISEASES OF THE SKIN

Instruction in skin diseases extends through the third and fourth years. In the third year systematic weekly lectures and quizzes are given. Fourth-year classes are taught practically in the out-door clinics and wards of the Charity Hospital. The class is divided into sections for this work and assigned for three periods per week during which groups of students are made to analyze cases and undergo quizzing by Professors Dyer and Menage. Instruction is also given in the practical therapeutics of skin diseases.

Text-books—Stelwagon.

PEDIATRICS

PROFESSOR LAURENCE RICHARD DE BUYS, B. Sc., M. D.

ASSISTANT PROFESSOR ROBERT ALEXANDER STRONG, M. D.

INSTRUCTORS

Dr. Frank James Kinberger

Dr. Sidney F. Braud

Dr. Chas. J. Bloom

Dr. Maud Loeber

CLINICAL ASSISTANTS

Dr. L. I. Tyler

Dr. G. J. DeReyna, Jr.

Dr. R. C. Voss

Diseases of Children. The course commences with the third year, is a graded one, and consists of class recitations and conferences on case histories, with ward and out-patient clinics, in addition to the fourth year didactic lectures and Amphitheater clinics.

Third Year Recitations, Quiz Periods and Case Histories The work of the Junior year will consist in part of two case history studies or quiz periods weekly. The class will be divided into four sub-groups. Case histories are assigned which will require the study of standard text books; the student's grasp of his reading is ascertained by "quizzing," and the instructor elucidates and emphasizes the necessary and important parts of the subjects under discussion.

Out-Patient and Ward Clinics For the purpose of applying the knowledge thus gained, students will be assigned to service in the out-door clinics and wards at the Charity Hospital. Students will be graded in their proficiency at each recitation and clinical meeting, and the markings thus established, with first and second term examinations, will be considered in arriving at the students' final grades. This is a preparatory course intended for the fuller development of the clinical and more practical work of the senior year.

Fourth Year Out-Patient Ward Clinics and Milk Station Small groups of students are detailed in rotation to the milk laboratory, and for ward and out-patient service at the Touro Infirmary. Patients are assigned to students who take histories, examine, diagnose and prescribe under the supervision of the instructor in charge. The several disturbances of nutrition will be considered and this experience in the wards and clinics will give additional notice to the important subject of nutrition in the infant and young child. Cases are discussed and students are expected to follow and study their patients, make house visits and report their observations in class conference.

Bedside Course in Communicable Diseases Small groups of Fourth Year students will meet twice a week, for five weeks, in the isolation wards of the Charity Hospital. Ample opportunity is offered to observe and follow the progress of diphtheria, scarlet fever, measles, mumps, meningitis, etc. Thorough drilling and quizzing in diagnosis and treatment is the feature of this course.

Clinical Lectures Sixteen lectures. Clinical lectures given in the Charity Hospital Amphitheater will still further serve to bring to the attention of the entire class the many varied and important ailments common to children; these will be illustrated by selected cases taken from the Hospital wards for this purpose.

Didactic Lectures and Case Histories In the didactic lectures particular attention will be paid to maternal and artificial feeding of infants in health and in disease and to the various methods of modifying milk, practical demonstrations of which will be given in the laboratory.

Conferences on case histories will occupy an important position in the didactic course, and will be so arranged as to cover much of the subject of Pediatrics; these histories necessitate reading, study and the presentation of written discussions of the cases.

The system of grading students mentioned in connection with the third year work will be followed in the senior year.

Text Books—Holt; Kerley; Koplik; Carr; Rotch; Cautley; Graham; Fisher; Pfaundler and Schlossmann; Still; Batten, Garrod and Thursfield; Grulee; Morse, Case Histories; Morse & Talbot, Infant Feeding.

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

PROFESSOR CHARLES W. DUVAL, M. A., M. D.

ASSISTANT PROFESSOR M. J. COURET, A. M., M. D.

ASSISTANT PROFESSOR WM. H. HARRIS, A. B., M. D.

ASSISTANT PROFESSOR JOHN A. LANFORD, Ph. G., M. D.

Dr. G. B. Adams, Instructor in Pathology and Bacteriology.

Dr. M. Elizabeth Bass, Instructor in Pathology and Bacteriology.

Dr. R. H. Potts, Instructor in Pathology.

Dr. W. R. Metz, Demonstrator in Pathology.

Dr. L. A. Hebert, Demonstrator in Pathology.

Dr. W. S. Kerlin, Demonstrator in Pathology and Bacteriology.

Dr. A. V. Friederichs, Demonstrator in Pathology.

Dr. R. B. Ehlinger, Demonstrator in Pathology.

Dr. J. R. D'Aunoy, Demonstrator in Pathology.

Dr. L. A. J. Brennan, Assistant Demonstrator in Pathology.

Second Year The lectures and the laboratory courses in bacteriology and microscopic pathology are conducted in the Richardson Memorial (Tulane Campus), where ample facilities are provided for teaching and research in the laboratory of pathology and bacteriology. The classes receive practical instruction three times a week for three hour periods.

BACTERIOLOGY

This course is held in the first and part of the second trimester of the second year and precedes the work in microscopic pathology. The first few weeks of instruction comprise bacteriological methods. The student is instructed in the preparation of culture media, the separation of bacteria, handling and transplanting cultures, technic of staining and other methods of observing the bio-chemical features of micro-organisms. Subsequently the work with the more common pathogenic bacteria follows. These are studied in relation to a given organ or tract; for example, the etiological factors in diseases of the respiratory system are considered before passing on to the causal agents in the diseases of another system. In the latter part of the practical course considerable time is devoted to serological and immunological work. A practical, written and oral examination is held at the end of the session.

MICROSCOPIC PATHOLOGY

The regular course for laboratory instruction in microscopic pathology is given throughout the third trimester and part of the second.

The first weeks of the course are devoted to the study of pathological technic in order that the student may familiarize himself with the various methods of preserving, imbedding, cutting and staining of tissues. Sufficient time is given to the study of methods to insure an intelligent understanding of them. The rest of the session is devoted entirely to instruction in microscopic histo-pathology. During this period microscopic sections already stained and mounted are given out to the students for each day's work. This is augmented with gross lesions removed at autopsy.

An essential feature of the course in microscopic pathology is the lantern demonstration of stained and mounted sections. This preliminary illustration before each laboratory period serves to instruct the class as a whole on the important things in each tissue section and how to proceed with their study. Students are required to make drawings of the microscopical specimens given out during the course.

The course of instruction considers first the general subject of inflammation and retrogressive tissue changes, after which the special lesions are taken up systematically and under separate organs or tracts. At the end of the session there is held a written and practical examination in general and special pathology.

Lectures in Pathology and Bacteriology extend over the entire second year.

Third Year

Gross Pathology.

The instruction on gross Pathology extends over the entire third year of the medical course. The class is divided into small groups of not more than twelve men each for autopsy work three times a week at the Charity Hospital. This instruction is carried on in connection with clinical teaching. Whenever practical, instead of at the Hospital, autopsies will be held at the Hutchinson Memorial, where every facility for holding post-mortems has been provided. Each section of the class is notified when an autopsy is pending and is excused from other work to attend it. The division of the class into small sections makes it possible for each student to take part in the autopsy. The men of a given section are assigned different parts; for example, the head to one, the thorax to another, the abdomen to still another, etc., and under the supervision of the Professor of Pathology and his assistants the post-mortem is actually performed by the students. Supplemental to the study of the gross tissue changes, microscopic sections of the fresh tissues are examined together with already stained sections of the particular lesion or lesions found at that autopsy. It is required of every third year student that he perform at least three complete autopsies, turning in his report, both gross and microscopic, before the session is over.

Third Year

Surgical Pathology

The course will consist chiefly in the use of gross and microscopic preparations of the more important tumors together with the technic of preserving, cutting and staining tissues for diagnostic purposes. In so far as possible, tumors and other lesions in which precise diagnosis is necessary, will be studied clinically, and the treatment as suggested by histological features discussed. The class will be divided into two sections and the work will extend over the entire third year.

This course is given in collaboration with the Department of Surgery under which heading a more detailed description may be found.

A written and practical examination on general and special Pathology including autopsy technic will be held at the completion of the course.

Fourth year

Experimental Pathology.

Experimental pathology will form the basis of the course which will be taught in the Laboratory of Experimental and Surgical Pathology at the Hutchinson Memorial. Two periods of two hours each will be given weekly. The class will be divided in groups of five (5), and each group will be required to perform the experiments and make daily records of the results.

Among other subjects studied will be the experimental production of acute and chronic inflammation including the granulomata, and the study of all the processes involved. Experimental septicemias, pneumonia, etc.; the transmissibility of neoplasms in fowls, mice, rats, etc. Experimental nephritis, diabetes, arterio-sclerosis and hypertrophy and atrophy of different organs. Attention will also be paid to the various factors influencing immunity and the value of serum diagnosis.

A written and practical examination will be held at the end of the fourth year terms.

Text-Books: *Bacteriology*:—Jordan; Hiss and Zinsser; Muir and Richie; Park.

Pathology:—McCallum; Mallory; Adami; Delafield and Prudden; Ribbert; Wells.

DEPARTMENT OF SURGERY

PROFESSOR RUDOLPH MATAS, M. D. (General, Regional and Clinical Surgery).

PROFESSOR HERMANN B. GESSNER, M. D. (Operative Surgery in the Miles Laboratory, and Clinical Surgery).

PROFESSOR JOHN SMYTH, M. D. (Clinical Surgery).

PROFESSOR CARROLL W. ALLEN, M. D. (Clinical Surgery).

PROFESSOR URBAN MAES, M. D. (Clinical Surgery and Miles Laboratory of Operative Surgery.)

PROFESSOR ISIDORE COHN, M. D. (Clinical Surgery).

ASSISTANT PROFESSOR MARION SIMS SOUCHON, M. D. (Clinical Surgery).

ASSISTANT PROFESSOR LUTHER SEXTON, M. D. (Clinical Minor Surgery).

ASSISTANT PROFESSOR LUCIAN H. LANDRY, (Clinical Surgery and Miles Laboratory of Operative Surgery.

Dr. William M. Perkins, B. Sc., Instructor in Clinical Surgery.

Dr. A. M. Caine, Instructor in Anesthetics.

Dr. H. Leidenheimer, Clinical Assistant in Surgery.

Dr. R. T. Perkins, Clinical Assistant in Surgery.

Dr. R. B. Harrison, Clinical Assistant in Surgery.

Dr. Simon Geismar, Instructor in Clinical Surgery.

Dr. L. A. Fortier, Clinical Assistant in Surgery.

Dr. E. L. Leckert, Clinical Assistant in Surgery.

Dr. P. G. Lacroix, B. Sc., Demonstrator in charge of the Laboratory of Minor Surgery.

Dr. M. Bradburn, B. Sc., Assistant Demonstrator of Operative Surgery.

Dr. O. C. Cassegrain, Clinical Assistant in Surgery.

Dr. T. F. Kirn, Clinical Assistant in Surgery.

Dr. C. P. May, Clinical Assistant in Surgery.

Dr. Emile Bloch, Clinical Assistant in Surgery.

Dr. I. M. Gage, Clinical Assistant in Surgery.

Dr. A. B. Pitkin, Clinical Assistant in Surgery.

Dr. A. D. Mouledous, Ph. G., Clinical Assistant in Surgery.

Dr. M. J. Lyons, Clinical Assistant in Surgery.

In the Hutchinson Laboratory of Surgical Pathology.

Collaborating with the Department of Surgery.

PROFESSOR CHAS. W. DUVAL, M. D.

ASSISTANT PROFESSOR M. J. COURET.

ASSISTANT PROFESSOR J. A. LANFORD.

Dr. M. E. Bass, Instructor.

Dr. W. R. Metz, Demonstrator.

Dr. L. A. Hebert, Demonstrator.

Dr. R. H. Potts, Instructor.

The division of Surgery is composed of the Departments of Surgery, Clinical Surgery, Orthopedic Surgery, Surgical Pathology, Operative Surgery, Minor Surgery, Genito-Urinary Surgery.

SURGERY In the second year, a course is given by Dr. P. G. Lacroix, in the laboratory of Minor Surgery at the Richardson Memorial Building, Tulane Campus.

Laboratory of Minor Surgery. This laboratory was first organized and equipped by Professor Matas in 1901 and was designed to give "First Aid," and a course of systematic demonstrations and individual exercises in Minor Surgical procedures. The aim of the course will be : (1) to prepare the student by manual training and personal experience in bandaging, plaster technic and fundamental procedures of minor surgery included in "First Aid" to the injured and emergencies; (2) to utilize the facts of Anatomy and Physiology acquired in the first two years, in their elementary surgical application.

Second Year. In the first part of the course, bandaging will be taught, including demonstrations on the principles involved in the application of the roller bandage, plaster of Paris, adhesive plaster, the tourniquet and the handkerchief bandage.

Opportunity is given for individual work in the preparation and application of these bandages.

Instruction is given on the following phases of First Aid—The simple methods of artificial respiration, transportation of the injured and wounded, first aid in fractures, hemorrhage, etc., such as is expected of a member of the hospital corps of the U. S. Army or Red Cross Service.

Practical training in these methods follows the instruction.

The second part of the course will be given largely to demonstrations on the fundamentals of fractures, dislocations, asepsis and antisepsis, hemorrhage, circulatory failure, respiratory failure, shock and anesthesia.

Third Year **Clinical Minor Surgery** (Outdoor clinics; ward work; amphitheater).

General Surgery or Principles of Surgery. (Hospital and Hutchinson Memorial).

The first contact of the student with the sick and injured occurs in this year. All the previous work in this department is intended to prepare the student to appreciate the great opportunities for clinical observation which are now offered him at the Charity Hospital.

The course of Clinical Minor Surgery is conducted by Prof. Luther Sexton and his assistants in the out-clinics of the Charity Hospital. This course is supplemented by lectures, quizzes and demonstrations given at the Hospital and at the Hutchinson Memorial.

Another division of the class is subdivided into clinical groups guided by Professors Allen, Maes and Landry, who utilize the time allotted to the class by giving instruction in surgical technic in the operating room and at the bedside in diagnosis, prognosis, post-operative treatment and in the proper observations for recording surgical cases. These instructors operate before the class in the Miles Amphitheater or in the Delgado Memorial according to their assignments. Quizzes are a particular feature of this course.

Class Lectures A systematic course of lectures and demonstrations on General Surgery and the Principles of Surgery is given at the Hutchinson Building by Professor Matas on Tuesdays and Wednesdays. Frequent quizzes are held throughout the session, in addition to two volunteer written examinations (Mid-winter and Spring), to review the progress accomplished during the course.

Clinical lectures are given at the Charity Hospital by Professor Matas on Mondays, Thursdays and Saturdays. Mondays and Saturdays are the chief operating days and operative clinics will be held in the Miles Amphitheater or in the "Matas Operating Room" of the

Delgado Memorial. The Thursday clinics will be held in the Miles Amphitheater as hitherto and will be devoted to the exhibition of post-operative results and the diagnosis and prognosis of new cases.

Fourth Year **Clinical Surgery** (in the amphitheater and in the wards); **Operative Surgery**.

Regional Surgery. Clinical instruction is given to sections of the class in the wards at the bedside and in the amphitheater by Professors Matas, Gessner, Smyth and Souchon, who will devote special attention to diagnosis, prognosis, the principles of surgical technic, post-operative treatment, etc., as applied to the various regions. The opportunity is given students to assist in the administration of anesthetics and in the post-operative dressings. A systematic course in regional surgery is given by Professor Matas and associate teachers which is illustrated by lantern slides and the Thompson opaque projector. The clinical demonstrations and lectures given in the amphitheater of the hospital on Mondays, Thursdays and Saturdays are especially intended for the benefit of the senior class, with the exception of the Thursday lecture at which both the Junior and Senior classes are expected to be present. Small groups visit Touro Infirmary on stated days for instruction by Prof. Cohn in bone pathology and in the management of fractures and dislocations, and by Prof. Souchon at the Hotel Dieu, in clinical surgery.

Anesthesia Special instruction and demonstrations in methods of general anesthesia will be given every week by Dr. Ansel M. Caine, at the Surgical Clinics and before class sections assigned to this division.

Surgical Pathology Four hours a week in the Laboratory of Surgical and Experimental Pathology in the Hutchinson Memorial will be given for the demonstration of fresh surgical specimens, gross and microscopic; the repair of wounds of the various tissues, bones, vessels, nerves, tendons, etc.; the specific infections and surgical lesions of the several tissue systems, lymphatics, joints, bones, etc., surgical lesions of the thyroid, mammary and salivary glands; of the digestive tract; of the urinary and genital tract.

The various pathological lesions amenable to surgical interference, such as inflammatory tissues and neoplasms will be systematically studied by means of microscopic sections, lantern slides, opaque projections, fresh and museum specimens.

Conjointly with this course, demonstration will be made by lectures and lantern slides, of the different steps in the process of inflammation and repair in the various tissues and organs; the study of neoplasms

in fowls and animals. and a comparison of these with tumors of the same type from the human subject.

These courses will be conducted by Professor Duval and assistants, conjointly with the course of surgery.

TOURO INFIRMARY

During the fourth year, sections of the class are regularly assigned to the Surgical Clinics, held at the Touro Infirmary on Fridays, from 8:30 A. M. to 10:45 A. M. The large number, variety and importance of the cases operated upon at the Clinic by Professor Matas, assisted by Professors Gessner and L. H. Landry and Dr. R. E. Stone, and the members of the resident staff, should make these Friday clinics especially attractive to advanced students and to graduates.

The out-door Surgical Clinic of the free department of this Institution cared for over 8,300 patients during the last year. The admirable opportunities offered for practical observation of the more frequent surgical accidents and diseases make this clinic especially valuable and instructive to the student. Professor Cohn and Dr. R. E. Stone, who are in charge, will always provide ample opportunities for individual work to all advanced students who may apply for regular attendance, during the Winter and Summer terms.

HOTEL DIEU

By special arrangement with Professor Souchon, sections of the senior class will be regularly assigned to his service in this institution where excellent opportunities are offered for instruction in surgical technic, diagnosis, and post operative treatment.

OPERATIVE SURGERY

The Miles Laboratory of Operative Surgery is in charge of Professor Gessner, assisted by Professors Maes and Landry and Drs. S. Geismar and Bradburn. In this course the laboratory work proper is preceded by a recitation on subjects previously assigned, with elaboration by the instructor and lantern slide illustrations. The operative work is done by the students exclusively, under supervision of the demonstrators. The entire field of general operative surgery is covered, the aim being to fit students for the operative work in general practice. Ample opportunity for experimental work is provided. Students are assigned in limited sections so as to emphasize the subjects taught through individual attention. The class of the fourth year is divided into sections, each covering a laboratory period of fifteen weeks.

Text-books—Second Year: Laboratory Notes. Doty, Pilcher, Lynch, Scudder and Cotton on Fractures.

Third Year: *General Surgery and Minor Surgery*—Prof. Matas' Syllabus for Junior Class; DaCosta (8th Edition, 1919); Ashurst (1914); Rose & Carless; McGuire. *Surgical Pathology*; Mallory; Adami; Laboratory Notes.

Fourth Year: *Regional Surgery*—Prof. Matas' Syllabus for Senior Class; Mumford and texts referred to under general surgery. For general reference, Keen's System of Surgery. *Operative Surgery*—Prof. Gessner's notes; Bickham; Binnie (Fifth edition); for general reference, Burghard.

ORTHOPEDICS AND SURGICAL DISEASES OF CHILDREN

PROFESSOR E. D. FENNER, A. B., M. D.

ASSISTANT PROFESSOR P. A. McILHENNY, M. D.

Dr. L. C. Spencer, B. Sc., Instructor.

Dr. G. K. Logan, Clinical Assistant.

It will be the aim of this department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the affections included under orthopedic surgery, and to point out the special features of the surgery of childhood, and in particular those affections which are peculiar to early life. The demonstration of cases in the wards, clinics, and operating room will be supplemented by didactic lectures, fully illustrated by lantern slides, and by quizzes during the progress of the course.

Text-books—Bradford & Lovett or Thorndyke. For reference: Tubby; Whitman.

GENITO-URINARY AND VENEREAL DISEASES

PROFESSOR JOSEPH HUME, Ph. B., M. D.

Dr. H. J. Lindner, Instructor.

Dr. John G. Pratt, Clinical Assistant.

The course in Genito-Urinary and Venereal Diseases is in charge of Prof. Joseph Hume, who arranges the practical teaching of the branch. Students of the third year are assigned to numerous cases, for personal practice in the examination of patients, passage of sounds, in irrigation methods, etc. The class is divided into sections of

limited numbers, to facilitate the teaching, conducted three days of each week in the out-door male clinic.

In weekly general class lectures, Prof. Hume takes up in sequence the anatomy and physiology of the male genito-urinary tract, the diseases of the urethra, prostate, seminal vesicles, bladder, and kidneys, with special lectures on stricture, urinary fever and prostatic hypertrophy. Chancroid and its complications, sexual neuroses and syphilis are also discussed.

Text, books—*Genito-Urinary and Venereal Diseases*—White and Martin; Keyes; Watson and Cunningham; Guiteras, Chetwood. *Syphilis*—Keyes, Lambkin; Marshall.

OPHTHALMOLOGY

PROFESSOR MARCUS FEINGOLD, M. D.

ASSISTANT PROFESSOR VICTOR C. SMITH, M. D.

Dr. Henry N. Blum, Instructor.

Dr. R. A. Davis, Clinical Assistant.

**DISEASES
OF THE EYE** Clinical instruction in diseases of the eye is given during the fourth year, at the close of which an examination is held. In order to prepare the student for this a review in the anatomy and physiology of the eye followed by instruction in errors of refraction is given during the third year. At the close of these lectures a written examination is held.

For clinical instruction, patients from the out-clinics and wards of the Charity Hospital are brought before sections of the class. The material is used to present practically all diseases of the eye of prime importance to the future practitioner. Differential diagnosis, prophylaxis and treatment are emphasized. The important symptom complex of eye-strain is demonstrated through the minute examination of patients and their histories and by following up cases treated.

External affections of the eye are demonstrated and students are trained in the examination of patients, by allotting cases to students for personal examination. The anatomical and pathological features are especially discussed and illustrative plates, etc., are used in elucidation.

Opportunity is given to acquire familiarity with the use of the ophthalmoscope and its application.

The weekly lectures in the amphitheater are made use of in order to demonstrate the clinical symptoms in groups of cases, to show the

progress of the disease in cases already demonstrated, and to give small groups of students a chance to see eye operations at close range.

In weekly seminary quizzes at the Hutchinson Memorial a systematic review of the diseases of the eye and especially in their relationship to diseases of other organs will be held, utilizing books, plates, pictures and specimens in illustration of the subject discussed.

Text-books—Fuchs; Haab; DeSchweinitz; Nettleship; Roosa and Davis; Gould and Pyle; Henderson; Hansell and Sweet; Fox; May.

OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

PROFESSOR STEPHEN MERTLE BLACKSHEAR, M. D.

PROFESSOR JAMES PHARES O'KELLEY, M. D.

Dr. C. H. Sharp, Clinical Assistant.

Dr. J. R. Hume, Clinical Assistant,

Dr. J. J. Irwin, Clinical Assistant.

DISEASES OF THE EAR, NOSE and THROAT

The student will be familiarized with the various instruments necessary for the early recognition of the diseases of the ear, nose, and throat, and this will be done in a practical way. To this end students should be provided with head mirror, two laryngeal mirrors, tongue depressor, speculums for the ear and for the nose.

Students will be given every opportunity for practical education in this department by assisting in the various and frequent operative procedures. They will come in personal contact with patients presenting the diseases in which the early diagnosis and proper treatment have become a matter of paramount importance to the general practitioner.

Every effort will be made to so equip the members of the class that they will be able to recognize the diseases of this department in a manner that will give them conviction; and that can only be done by specially training the eye and the touch.

The teachers of this branch will conduct clinical quizzes with the examination and treatment of the patient as a part of the routine.

Text-books—*Diseases of the Ear*—Politzer; McKernon; Dench; Gleason. *Diseases of the Nose and Throat*—Ballenger; Kyle; Phillips; Coolidge.

DEPARTMENT OF GYNECOLOGY

PROFESSOR S. M. D. CLARK, B. Sc., M. D.

PROFESSOR C. JEFF. MILLER, M. D. (Clinical Gynecology.)

Dr. John F. Dicks, Lecturer and Instructor.

Dr. W. O'D. Jones, Assistant Instructor.

Dr. P. Graffagnino, Assistant Instructor.

Dr. A. H. Gladden, jr., Clinical Assistant.

GYNECOLOGY The work in this department begins with the third year. The course is essentially practical. Instruction is given primarily, by clinical conferences; secondarily, through didactic work.

Third Year One hour a week, gynecological pathology is taught by an instructor from this Department. This preliminary course in pathology gives the student a better insight and understanding of the teaching in the out-door clinic.

Clinical conferences are conducted three times a week in the out-door clinics. The section assigned is divided into three sub-groups, each group being under an instructor, thereby assuring a small number of students to each teacher and, secondly, enabling the student to make the necessary gynecological examinations. In the Gynecological Department of the Charity Hospital the student enjoys unique clinical opportunities. The clinic is richly endowed with material, and further, it is possible to bring the student in direct contact with the cases.

A quiz is conducted once a week. The class is grouped into three divisions, each division being assigned an instructor. A standard text-book is employed, and in this quiz the ground work of gynecology is thoroughly discussed.

Fourth Year Three operative clinics are held weekly at the Charity Hospital. Most of the cases operated upon are previously examined and worked out by members of the assigned section. Associated with this operative clinic is a demonstration of the pathological specimens, the macroscopical pathology being discussed; subjective symptoms and pathological findings correlated, and sections of specimens assigned to members of the class for microscopical examination. At selected times the class is taken through the gynecological wards, where clinical conferences are held and the post-operative treatment of cases discussed.

A course in operative gynecology on the cadaver is given so as to equip the student to properly follow and comprehend the work in the regular operative clinics.

Once a week Professor E. S. Lewis (*Emeritus*), conducts an exhibit diagnostic clinic; assigned students examine patients, and special stress is laid on the points of differential diagnosis.

One hour a week a graded course is given. Lantern slides are freely employed, graphically illustrating the lecture subject.

Text-books—Dudley; Bandler; Kelly; Polak; Graves.

DEPARTMENT OF OBSTETRICS

PROFESSOR C. JEFF. MILLER, M. D.

PROFESSOR S. M. D. CLARK, B. Sc., M. D. (Clinical Obstetrics).

PROFESSOR J. W. NEWMAN, Ph. D., M. D. (Clinical Obstetrics).

Dr. E. D. Friedrichs, Instructor.

Dr. W. D. Phillips, Instructor.

Dr. E. L. King, Instructor.

Dr. P. J. Carter, Instructor.

Dr. Hilliard E. Miller, Instructor.

Dr. J. S. Hebert, Instructor.

Instruction in this branch will consist of didactic lectures, clinical demonstrations, lantern slide exhibitions, bedside instruction, and the attendance upon patients in their homes during confinement.

Third Year The course begins with the third year. One hour a week is devoted to lectures, or quizzes, upon the elements of obstetrics, the physiology of pregnancy, pelvimetry and the conduct of normal labor. Four hours a week are devoted to the clinical study of cases in the maternity service and outdoor clinic of the Charity Hospital.

The classes are divided into small sections, in order that every student may be given individual instruction in diagnosis, pelvimetry, the mechanism of labor, and the care of the lying-in woman. Students are summoned to witness deliveries in the obstetrical wards of Charity Hospital and Touro Infirmary.

Fourth Year One hour a week is devoted to didactic lectures, demonstrations, or clinical reviews of the various phases of pathologic pregnancy, labor and the puerperium. Four hours a week are devoted to bedside observations in the obstetric wards.

Out-Patient Department: In addition to the large amount of clinical material available in the clinics and obstetric wards of Char-

ity Hospital, students now have access to the maternity service of Touro Infirmary and to the outdoor service of the Lying-In Hospital. The latter service offers exceptional opportunities for senior students to deliver patients in their homes under the direction of competent instructors.

Each student is required to witness at least ten cases of labor before graduation.

Text-books—Williams; Cragin; De Lee; Edgar; Polak; Hirst.

HYGIENE

PROFESSOR WILLIAM HENRY SEEMANN, M. D.

PROFESSOR OSCAR DOWLING, M. D.

Dr. L. C. Scott, Instructor.

The work in this department will be carried out throughout the Junior year, and will embrace one general lecture each week and three laboratory periods each week of two hours each throughout the session.

The general lectures will give a resumé of the most recent views of the various diseases which are considered preventable. These will be considered in classes as relating to the method of their spread and control.

The various aspects of food examinations, milk, water, soil and sewage analyses, disinfection, insects and animal parasitology in relation to Public Health Administration will be considered in sufficient detail to give the students a comprehensive grasp of the subject and will lay a sufficient foundation for more advanced studies.

Occupational diseases will receive especial attention, and lectures will be supplemented by visits to industrial establishments for a practical study of the subject.

Vital Statistics will be thoroughly explained and their practical application will be studied by the students during visits to the departments of the Board of Health.

The question of so-called Social Hygiene, including a study of the methods for the control of venereal diseases, on account of its prominence and importance, will receive thorough consideration, as well as the Narcotic question, as an important subject in Public Health Administration.

In the laboratory, standard methods of examination of material will be demonstrated, including inspection work and the proper collection of material. Such aspects of immunity as are necessary to the proper

carrying out of serological and other tests done in health laboratories, shall be considered in detail.

Text-books—Bergey, *Practical Hygiene*; Rosenow, *Hygiene and Preventive Medicine*.

MEDICAL JURISPRUDENCE AND TOXICOLOGY

PROFESSOR _____

_____ Instructor.

_____ Instructor.

In this course the general relations of medicine to law are discussed, and the duties and rights of the medical expert as a witness, and advice given as to how he should conduct himself, with a study of the poisons most commonly needing attention, in their chemical and physiological aspects.

It is projected that hereafter this course shall be extended by special lectures from the teachers in the several departments as their subjects may be related to Legal Medicine.

Examinations are held at the end of the course (*Fourth Year*) and the questions are to be based on the lectures by the members of the Faculty giving the course.

Medical Jurisprudence—Reese; Herold; Draper's *Legal Medicine*.

Reference Reading—Witthaus and Becker's *Medical Jurisprudence*. Peterson and Haines' *Legal Medicine and Toxicology*.

THE COLLEGE OF MEDICINE

OF

The Tulane University of Louisiana

ANNOUNCEMENT

OF THE

School of Pharmacy

Established 1838

SESSION 1919-1920

SCHOOL OF PHARMACY

FACULTY—1919-1920

- ALBERT BLEDSOE DINWIDDIE, A. M., Ph. D., LL. D., President
of the University. 1468 Arabella Street
- ROBERT SHARP, A. M., Ph. D., LL. D., *Emeritus* President of the
University. 7325 St. Charles Avenue
- ABRAHAM LOUIS METZ, Ph. G., Ph. M., M. D., *Emeritus* Profes-
sor of Chemistry and Toxicology. 9 Rosa Park
- ISADORE DYER, Ph. B., M. D., Dean of the School of Pharmacy.
2222 Prytania Street
- GEORGE STEWART BROWN, M. Ph., M. D., Chairman of Faculty
and Professor of Pharmacy. 1329 Josephine Street
- JOHN TAYLOR HALSEY, M. D., Professor of Materia Medica and
Pharmacology. 1408 Seventh Street
- REGINALD SOMERS COCKS, A. M., Ph. G., Richardson Professor
of Botany and Pharmacognosy. 701 Exposition Boulevard
- CHARLES WARREN DUVAL, M. D., Professor of Bacteriology.
8 Richmond Place
- WALTER EUGENE GARREY, Ph. D., M. D., Professor of Physi-
ology. 2123 Palmer Avenue
- OSCAR WALTER BETHEA, Ph. G., M. D., F. C. S. Professor
of Materia Medica. 1735 S. Carrollton Avenue
- J. HARRY CLO, B. S., M. S., Ph. D., Associate Professor of Physics.
904 Lowerline Street
- RALPH HOPKINS, A. B., M. D., Assistant Professor of Physiology.
1524 Harmony Street
- FELIX PERCY CHILLINGWORTH, Assistant Professor of Physi-
ology and Pharmacology. Biloxi, Mississippi
- WILLIAM HERBERT HARRIS, A. B., M. D., Assistant Professor of
Bacteriology. 1011 Broad Place
- EDWARD HENRY WALSDORF, Adjunct Professor of Commercial
Pharmacy. 900 Peters Avenue
- HENRY COOK RICHARDS, B. S., Ph. C., Instructor in Materia
Medica. 800 Broadway
- FRANK WILLIAM MORGAN, Phar. D., Instructor in Chemistry.
8213 Spruce Street
- JOHN MARTIN DANNEKER, Student Assistant in Pharmacy.
1518 Poland Avenue

ANNOUNCEMENT
OF THE
SCHOOL OF PHARMACY
IN THE
COLLEGE OF MEDICINE
OF THE
TULANE UNIVERSITY OF LOUISIANA
1919-1920

ANNOUNCEMENT This School was established in 1838. In 1908, the pharmaceutical school of the Medical Department became the Department of Pharmacy of the Tulane University of Louisiana, and in 1914, with the reorganization of the divisions of the University related to Medicine, the School of Pharmacy became a part of the reconstituted College of Medicine.

This School holds membership in the American Conference of Pharmaceutical Faculties, organized to promote the interests of pharmaceutical education.

ANNOUNCEMENT OF COURSES Two years are required for the Ph. G. (Graduate in Pharmacy) degree; three years for the Ph. C. (Pharmaceutical Chemist) degree, and additional periods of study for the degree of Doctor of Pharmacy.

The pharmaceutical laboratory, the pharmaceutical dispensing laboratory, the pure food and drug laboratory, the laboratories of general, qualitative and quantitative chemistry, and other laboratories for special work are located in the commodious Richardson Chemistry Building; physics is taught in the laboratories and lecture rooms of the Physics Building; while the laboratories of botany and pharmacognosy, physiology, pharmacology and bacteriology are in the Richardson Memorial Building; these buildings are all situated upon the University Campus. The equipments of the various laboratories are ample and up to date for all purposes of the School of Pharmacy which is organized to train high-class graduates, with ample facilities for practical work.

DORMITORY The Richardson Dormitory is open to students of this department. The rate in the Dormitory (including two meals a day) is \$150 per session.

Pharmacy students who wish to make application for rooms, or who desire more information regarding the dormitories should communicate with the Registrar of Tulane University, Station 20, New Orleans.

REQUIREMENTS FOR ADMISSION

Women are admitted to the full courses in pharmacy on the same terms and conditions as men.

1) Twelve units are required for entrance. This is equivalent to three years of High School work.

2) A "unit" is a subject pursued through one school year, with not less than five recitation periods per week.

3) Applicants with ten units may be admitted to partial standing.

4) Applicants presenting less than ten units will not be received.

5) All applicants *must offer three units in English, two and one-half units in Mathematics*, and the additional units from the other subjects here listed.

6)

1. English Composition	2	16. Physics	1
2. English Literature	1 or 2	17. Chemistry	1
3. Elementary Algebra	1½ or 2	18. Biology	1
4. Plane Geometry	1	19. Botany	1
5. Solid Geometry	½	20. Zoology	1
6. Trigonometry	½	21. Physiology	1
7. Latin	2, 3 or 4	22. Physiography	1
8. Greek	2 or 3	23. Freehand Drawing	1
9. French	2 or 3	24. Mechanical Drawing	½
10. Spanish	2	25. Wood-working	½
11. German	2 or 3	26. Foundry Work	½
12. Ancient History	1	27. Forge Work	½
13. Med. and Mod. Hist.	1	28. Machine Tool Practice	1
14. English History	1	29. Comparative Anatomy	1
15. American History	1	30. Pharmacy	1 or 2

Students over 21 years of age are admitted as partial-course students or as special students and may be credited with work accomplished, while engaged in preparation for the fulfilment of the above requirements. Such students must successfully complete *all work*

undertaken each term, otherwise they shall be dropped for deficiencies and may enter again only by fulfilling the regular entrance requirements by certificate or entrance examination.

Special students, entering without examination or certificate must satisfy all entrance requirements before they may become regular.

The entrance examinations in all departments will be held during the two weeks preceding September 25. Candidates will apply to the Dean for schedule of entrance examinations.

Blank forms showing entrance requirements in detail will be furnished on request to the Dean.

REQUIREMENTS FOR ADVANCED GRADES An official set of tickets, showing that the holder has attended one full course of studies in any regular and recognized school of pharmacy is essential to matriculating for a second course of lectures. To be credited with a full course, at least eighty per cent of the session must have been attended.

Students from other colleges entering the second year will be required to show evidence that at the time at which they commenced the study of pharmacy their entrance credits were not less than the requirements of this department at the same time.

SYNOPSIS

Studies and Examinations The full course of Lectures and all Laboratory courses will begin Wednesday, September 26, 1917.

Degrees Two graded courses of thirty-two weeks each will be required to complete the course of study leading to the degree of Ph. G. (Graduate in Pharmacy), and three courses will be required for the degree of Ph. C. (Pharmaceutical Chemist).

An additional year of graded work in a course of thirty-two weeks will qualify the holder of a Ph. C. degree for the degree of Doctor of Pharmacy (Pharm. D).

First Year *Physics, chemistry and toxicology, botany and pharmacognosy, materia medica, physiology, pharmaceutical Latin, mathematics of pharmacy, theory and practice of pharmacy, and laboratory work in physics, pharmacy, general chemistry, and qualitative analysis.*

Physical training is required of all male students in the first year.

Second Year *Chemistry* (including organic, physiological, medicinal, pharmaceutical, manufacturing or industrial, quantitative analysis, with their laboratories), *toxicology, pharmacognosy and the microscopical identification of powdered drugs, materia medica and pharmacology, drug assay, prescription practice* in the dispensing laboratory, *commercial pharmacy, manufacturing pharmacy, theory and practice of pharmacy, bacteriology and pharmaceutical jurisprudence.*

Third Year Systematic courses in detailed work in pure food and drug analysis; assaying of drugs; physiological standardization of drugs; advanced work in materia medica and pharmacology; advanced work in manufacturing pharmacy; commercial pharmacy.

Special attention is given to the *practical laboratory training* of students. The value of practical laboratory training cannot be overestimated and students of this institution are provided with exceptionally superior advantages in this respect.

In addition to the laboratory training, throughout the second and third years, students are regularly assigned to a number of pharmacies in New Orleans, where practical experience is afforded.

EXAMINATIONS

Examinations will be held on all branches taught in each year at regularly scheduled dates.

REQUIREMENTS FOR GRADUATION

Every candidate for graduation must be of good moral character, which includes good conduct while a student in this college, and must have attained the age of nineteen years.

The candidate must have attended courses of instruction during two or more academic years, the last to be spent at this college, and he must have satisfied all obligations of the course, including payment of all fees.

Those entitled to diplomas will receive them at the end of the course without regard to the amount of practical drug store experience required by the Boards of Pharmacy Examiners.

TABLE OF FEES

	Matriculation	Gym.-Athletic	Infirm-ary	Break-age	Tuition	Graduation	TOTAL
First Year.....	\$5 00	\$10 00	\$5 00	\$10 00	\$70 00	\$100 00
Second Year.....	5 00	10 00	5 00	10 00	70 00	\$20 00	120 00
Third Year.....	5 00	5 00	10 00	70 00	20 00	110 00

Every student must deposit the breakage fee of \$10 to reimburse for needless injuries inflicted on the laboratories or their contents, or on any of the University buildings. Any unused part of such fee will be refunded on proper demand at the end of each session and before the beginning of the next session, after which it will be forfeited.

All fees are payable on admission, except the graduation fee of \$20, which is not accepted earlier than January 1, nor later than March 31. Ten dollars of this fee will be retained in the case of candidates for graduation who may fail to be graduated, or who may withdraw their application after the final examinations.

For the accommodation of students, payment of tuition may be made in two instalments, one-half at entrance and one-half February 1. For such accommodation a delinquent fee of \$2 will be added to the second payment. All other fees are payable on admission, as stated.

Special.—The fee for a special lecture course in any single department of the regular pharmacy course is \$25; if a laboratory course, a fee of \$15.00 in addition will be charged.

INFIRMARY FEE

An infirmary fee will be charged each session, which will cover all hospital care in College Infirmary, and will provide for reasonable expense in cases of ordinary illness, under the rules of the Infirmary Committee. This fee applies to non-residents, but residents may avail themselves of these privileges by payment of fee at time of registration.

GYMNASIUM-ATHLETIC FEE

A fee of \$10 will be charged all male students in the first two years for the services of physical director, use of athletic facilities, and privileges, for required gymnasium courses, etc. Students excused from physical training, through prior credit or for other reasons, shall not be exempt from the payment of the gymnasium-athletic fee.

The Faculty reserves the right to increase these fees after the session of 1919-20.

Unused proportion of fees will be refunded if written notice of withdrawal is given before March 15. *Written notice to the Dean, at time of withdrawal, is required to make this effective.* No refund will be made after March 15.

PRIZES

The Louisiana State Pharmaceutical Association, with a view of furthering the cause of education in pharmacy, will present annually a gold medal to the Graduate in Pharmacy making the best general average in his studies, for the two years' attendance in this institution.

**GENERAL
INFORMATION**

The price usually paid by students for board varies from \$25.00 to \$30.00 per month. A list of desirable boarding houses is prepared shortly before the opening of the session and may be consulted by students on their arrival at college.

Students receiving remittances from home are advised to obtain them in checks on New Orleans banks or in Post Office or Express money orders.

Correspondence intended for students of this department should be addressed "Richardson Memorial, Tulane Campus, Station 20, New Orleans, La."

For Bulletin containing details of courses offered, and for all other information, address,

**Dr. Isadore Dyer, Dean,
School of Pharmacy,
Tulane University of Louisiana,
P. O. Box 770, New Orleans, La.**

OUTLINE OF COURSE IN PHARMACY

Leading to the degree of Graduate in Pharmacy, (Ph. G.). Showing in tabular form the weekly and total number of hours credited to each subject composing the curriculum.

JUNIOR YEAR	HOURS PER WEEK	HOURS PER SESSION
General Chemistry, Lecture	3	96
Qualitative Analysis, Laboratory	4	128
Physics (experimental), Lecture	3	96
Physics (experimental), Laboratory (optional)	4	128
Pharmacy, Lecture	2	64
Pharmacy, Manufacturing, Laboratory	4	128
Pharmacy, Dispensing, Laboratory	2	64
Pharmacy, Commercial, Lecture, (second term)	1	15
Pharmaceutical Arithmetic	1	30
Pharmaceutical Latin	1	30
Materia Medica and Pharmacology, Lecture	1	32
Botany, Lecture	1	32
Botany, Laboratory	2	64
Total	29	907
SENIOR YEAR		
General Chemistry, Toxicology, Lecture	4	128
Qualitative Analysis, Laboratory, (first term)	6	96
Quantitative Analysis, Laboratory, (second term)	9	144
Qualitative Analysis, Lecture, (first term)	2	32
Quantitative Analysis, Lecture, (second term)	2	32
Pharmacy, Lecture	4	128
Pharmacy, Manufacturing Laboratory	7	224
Pharmacy, Dispensing Laboratory	2	64
Pharmacy, Commercial, Lecture, (second term)	1	15
Pharmaceutical Assaying, (second term)	3	48
Materia Medica and Pharmacology, Lecture	2	64
Pharmacognosy, Lecture	1	32
Pharmacognosy, Laboratory	2	64
Physiology, Lecture	3	90
Total	48	1161
GRAND TOTAL	77	2068
Bacteriology, (optional).		
Pharmaceutical Jurisprudence.		

COURSES OF INSTRUCTION

PHARMACEUTICAL LATIN

PROFESSOR BETHEA

Junior Students, Recognizing the importance of some knowledge
 30 Hours of Latin, in order to thoroughly understand and appreciate the nomenclature of the United States Pharmacopeia, the School of Pharmacy of Tulane University has deemed it necessary to include in its curriculum a course in Pharmaceutical Latin.

This course will consist of didactic lectures and will cover all the essentials of Latin necessary for the proper study of the present day materia medica.

PHARMACEUTICAL ARITHMETIC

PROFESSOR BROWN

Junior Year, The course in Pharmaceutical Arithmetic will be
 30 hours arranged to acquaint the pupil with the peculiar computations of daily Pharmaceutical Practice.

SYLLABUS OF COURSE:

I. Weights and Measures.

II. Relationship of Systems.

III. Volumes and Weights.

 A—Specific Gravity.

 B—Specific Volume.

IV. Reducing and Enlarging Formulae.

 Calculating Definite Weight from parts of Weight.

V. Percentage—Volume.

 Percentage and Volume.

 Solutions— Other Methods of expressing Strength of Solutions.

VI. Concentration and Dilution.

VII. Alligation, complete.

VIII. Thermometers and their uses.

DEPARTMENT OF PHYSICS

ASSOCIATE PROFESSOR CLO

Instruction in Physics is given in the Physics Building. This building, a spacious two-story structure, 125 feet long by 53 feet deep, contains two lecture rooms, two laboratories and eleven smaller rooms available for the use of students in pharmacy. The two lecture rooms will accommodate a total of about 150 students at one time.

The larger lecture room is fitted up with every convenience for demonstrating the principles of physics. Water, gas, compressed air, vacuum pumps and electricity with both direct and alternating current are available at the lecture table. By means of a heliostat direct sunlight may be used for demonstration purposes. The room can be darkened in an instant, thus facilitating the use of lantern slides and other means of optical projection.

Each under-graduate course in physics includes a definite amount of laboratory work, which is adapted to the needs of the class of students taking the course and which thus becomes a most important and prominent part of the training in physics.

Located in the Physics Building is the shop of the University mechanician, whose services are available for the repair and construction of apparatus. Much of the above apparatus was constructed in this shop.

1. Experimental Physics. Required of Junior Students.

This is a descriptive course in *first year college physics*, including a series of lectures and recitations on selected topics and a collateral laboratory course. This course is mainly experimental rather than mathematical, and aims to give a thorough training in the scientific method of thinking and to furnish a study of the many practical applications of physics, especially those found in medicine and pharmacy.

The following topics indicate the scope of the work: dynamics and statics of solids, liquids and gases, with special emphasis on liquids and gases, elementary principles of kinematics and kinetics, wave motion with its application to sound, music and the sense of hearing, nature and effect of heat, transmission of heat, nature of light, theory of optical instruments, spectroscopy, spectrometry, polarimetry and photography, nature and applications of electricity and magnetism, electric current, resistance, electromotive force, electric quantity, electric waves and radiations, discharge of electricity in rarefied gases, radio-activity.

- (a) Lectures and recitations, three hours per week throughout the year.
- (b) Laboratory work (Optional), four hours per week throughout the year.

Text-book: Black and Davis, *Practical Physics*, and the Professor's *Manual*.

2. General Physics (Optional).

This is a general course in Mechanics, Sound, Heat, Light and Electricity and Magnetism. It is of a more advanced character than Course 1, and is more mathematical in its nature. A member of this class must have completed Course 1 and should have had good training in college mathematics.

- (a) Lectures and recitations, three hours per week throughout the year.
- (b) Laboratory work, four hours per week throughout the year.

Text-book: Spinney's *Text-book of Physics*.

DEPARTMENT OF CHEMISTRY

PROFESSOR GARREY

MR. MORGAN

The work in Chemistry pursued by students in pharmacy is carried on in the lecture rooms and laboratories of the Richardson Chemistry Building, which accommodates students of all the departments of the University. Besides the main auditorium, seating two hundred and thirty persons, the building possesses a small lecture room seating forty persons, and smaller quiz rooms. The laboratories are spacious and well equipped. The laboratory of general chemistry and qualitative analysis accommodates two hundred and forty pupils; the organic laboratory, ninety-six; the physiological chemical laboratory, one hundred and twelve; the quantitative analysis laboratory, forty-two; the industrial chemical laboratory, forty-eight; the pharmaceutical laboratory, forty-eight; the pharmacy dispensing laboratory, thirty-six. Besides these are smaller laboratories for physical chemistry, electro-chemistry, water analysis, gas analysis, food and drug analysis, assaying, photography, and nitrogen determinations, and offices and laboratories of the teaching force, preparation rooms, stock rooms, etc.

General Chemistry and Qualitative Analysis. (Junior).

This course embraces first, a detailed study of the fundamental principles of chemical science, developed simply and logically from experimentally demonstrated facts; the meaning of the terms element, compound, atom, molecule; chemical nomenclature; equations; val-

ence; laws of chemical combination; chemical mathematics. Then follows a study of the non-metals and their important compounds; the preparation of acids, bases, and salts; the principles of chemical dynamics and equilibrium. Finally the metals and their important commercial compounds are taken up. Throughout the course the toxicological features of the subject under consideration are emphasized whenever necessary.

The work is conducted by means of lectures, amply illustrated by experimental demonstrations; by oral and written quizzes; by problems given for solution; and by formal written examinations at stated times.

Parallel with the lecture and recitation work, each pupil carries on in the laboratory practical work designed to make the science real and full of meaning to him, in addition to making him familiar with the actual preparation of elements and compounds. During the last half-year systematic analysis for the commoner acidic and basic radicals and the determination of simple mixtures is pursued.

Three hours a week throughout the year, lecture.

Four hours a week throughout the year, laboratory.

Text-books: McPherson and Henderson, *A Course in General Chemistry*; Smith and Hale, *Laboratory Outlines of General Chemistry*; W. A. Noyes, *Qualitative Analysis*.

Organic Chemistry This course as originally outlined includes two one hour periods a week throughout the school year. The time is taken up for the most part in lectures, though quizzes are often given.
(Senior Year)

The earlier lectures touch on the differences of this branch from inorganic chemistry. Latterly, proximate and organic analysis, molecular weight determinations, etc., are taken up in some detail. The later lectures take up consecutively the hydro-carbons, alkylogens and the oxidation products of the saturated and unsaturated series. For the sake of clearness the nitrogen compounds are treated separately. The final lectures deal with the aromatic series and a few of the commoner alkaloids.

The student is continually drilled in different syntheses; this practice, it is believed, making him more familiar with the relations existing between organic compounds.

While due regard is paid to correlating this branch to the needs of the department by more particularly drawing attention to those compounds like the "synthetics," glucosides, etc., the main object is to

lay general foundations. The result is happily expressed in the increased confidence of the pharmacist when brought in contact with problems related to this branch of chemistry.

Pharmaceutical Assaying During the second term of the Senior year students will be given training in pharmaceutical assaying, including the most common drugs and their preparations; as also the recognition of the principal alkaloids, glucosides and pharmacopeial preparations.

Physiological Chemistry. (Senior Year)

Qualitative Analysis.

Two hours lecture; three periods laboratory practice. First term.

Text-books: Stieglitz, *Elements of Qualitative Chemical Analysis*, Vol. I; A. A. Noyes, *Qualitative Chemical Analysis*.

Quantitative Analysis.

Two hours lecture; three periods laboratory practice. Second term.

Text-book: Foulk, *Notes on Quantitative Chemical Analysis*.

PHYSIOLOGY.

PROFESSOR GARREY

ASSISTANT PROFESSOR HOPKINS

Senior Year The course in Physiology is given in the Physiological Department in the Richardson Memorial, and consists of lectures, quizzes and demonstrations of physiological principles on living animals. A written and oral examination is held at the end of each term.

30 hours

The principles of special importance to the pharmacist are emphasized. The course embraces the following subjects:

Circulation; Respiration; Digestion; Absorption; Metabolism; Animal Heat; Muscle; Nerve; Central Nervous System; Senses; Reproduction.

Text-book: Brubaker, *Text-book of Physiology*.

DEPARTMENT OF BOTANY.

PROFESSOR COCKS

Botany
(Junior Year)

The special object of this course is to prepare the student for undertaking that part of *Materia Medica* which relates to vegetable drugs.

The course in Botany includes (1) the gross anatomy of seed plants, including the structure of seeds, fruits, leaves, stems, roots and barks;

(2) the cell structure and cell contents of seed plants; (3) classification of seed plants.

The course in Botany is divided into two parts: (1) Structural: This comprises (a) the gross anatomy of seed plants, including the structure of seeds, fruits, leaves, stems, roots and barks; (b) the cell structure and cell contents of seed plants. (2) Classification: In this part of the course students will receive practical training in the identification of the native flora with the view especially of becoming familiar with the distinguishing features of the families and genera in which occur medicinal plants. Arrangements are now being made by which it will be possible to study the principal plants in the growing condition, together with their methods of culture and preparation for commercial purposes.

Text-books: Kraemer, *Botany and Pharmacognosy*; Rusby, *Botany*.

Manuals: Chapman's *Flora of the Southern States*; Small's *Flora of the Southern States*; Gray's *New Flora of the Northern States*.

Laboratory: The botanical laboratory is situated on the fourth floor of the Richardson Memorial Building. It is furnished with three large tables, affording comfortable capacity for thirty students working at the same time. It is well supplied with dissecting microscopes, compound microscopes, microtomes and all apparatus necessary for both elementary and advanced botanical work. There is also a projection lantern and a series of charts for illustrating lectures.

Text-books: Kraemer, *Botany and Pharmacognosy*.

PHARMACOGNOSY The study of Pharmacognosy is carried on in both *Junior* and *Senior* years and includes (1) the study and identification of the crude drugs of the U. S. Pharmacopeia; (2) the microscopic examination of powdered drugs, both for the purposes of identification and the detection of adulterants.

During the course full instruction is given in microscopical methods, the use of stains and reagents, and the preparation of permanent slides. In addition to the equipment already described in the laboratory of Botany there is a complete set of all the drugs, both crude and powdered, which the practical pharmacist is called upon to handle.

Text-books: Kraemer, *Botany and Pharmacognosy*; Wall, *Notes on Pharmacognosy*.

MATERIA MEDICA AND PHARMACOLOGY

PROFESSOR HALSEY

ASSISTANT PROFESSORS BETHEA AND CHILLINGWORTH, AND
MR. RICHARDS

The instruction in Materia Medica and Pharmacology is separate and distinct from that given in these branches to the students of the other departments of the University and will consist of lectures, recitations, and written exercises particularly adapted to the needs of the pharmacist.

Junior Year Among the subjects of this term's work are, history of materia medica, definitions, special work in metrology, nomenclature, methods of administration, comparative dosage, rules and short cuts for dosage, etc. The various classifications with the typical example of each class will be carefully presented. The study of drugs proper will then be taken up and the rest of the term devoted to inorganic materia medica. In the study of these as well as that of organic drugs careful attention is given to the important subject of poisons, symptomatology of poisoning, antidotes and treatment.

Senior Year The work begins with a comprehensive review of inorganic materia medica. Organic materia medica is then covered, with special attention to official drugs and more particularly those considered of most importance. In connection with the consideration of the materia medica of the individual drugs, sufficient mention will be made of their pharmacological and toxicological actions, together with a discussion of their more usual therapeutic applications.

Advanced Year The matter of Materia Medica is covered in such a way as to give the student a greater store of information on this important subject and justify him in claiming more complete equipment. Particular attention is given to pharmaceutical manufacturing, original research, preparation of papers and *physiological assay methods*.
(for Pharm. D.)

Text-books: Wilcox, *Materia Medica and Pharmacy*; Culbreth's *Materia Medica and Pharmacy*. Bethea's *Practical Materia Medica*.

Pharmaceutical Jurisprudence (Senior) It is projected to provide a course to consist of a series of lectures setting forth the legal obligations and privileges of the pharmacist, based upon the following synopsis:

Civil Liability; Criminal Liability; Pharmacy Boards; Special Work.

THEORY AND PRACTICE OF PHARMACY

PROFESSOR BROWN AND ASSISTANTS

Pharmacy This course of instruction will be given in the Richardson Chemistry Building with its commodious lecture halls, thoroughly equipped, well lighted and ventilated laboratories, and will consist of a series of lectures, laboratory exercises, and class recitations or quizzes.

Didactic Pharmacy This course will begin with a series of lectures, defining pharmacy and its relation to allied sciences, and will treat of the history of pharmaceutical literature, embracing a study of Pharmacopeias (especially the United States Pharmacopeia), National Formulary, Dispensatories and other Commentaries, Pharmaceutical Journals, etc.

(Junior)

Then will follow in order, lectures and demonstrations, dealing with the principles and processes employed in operative pharmacy.

Manufacturing Pharmacy The object of this course is to teach the student to put in practice in the laboratory the principles of Pharmaceutical manipulation taught in the lecture room. While the student's work is individual, constant supervision of professors and instructors prevents inaccuracies and errors in conception, while wrong methods can be corrected as soon as manifested. The course will consist of laboratory exercises and recitations in both practical and theoretical Pharmacy.

(Junior)

The Galenical preparations will be critically studied and the student will be taught the reasons for each step taken in the manufacture of the different preparations.

Dispensing Pharmacy (Junior) There is perhaps no branch of pharmaceutical teaching in which special drill and training of the student is so essential as that of prescription compounding. The chief object of this course will be to point out the pitfalls and difficulties usually encountered by the student and to suggest the best means of avoiding them. The course embraces the best methods of compounding the various types of prescriptions, from the simplest to those requiring much technical knowledge and skill. Before taking up the practical part of prescription work, the student will be thoroughly drilled in the elementary principles of prescription writing and compounding, including the proper construction, expression, order of ingredients, calculation of doses, etc. The subject of incompatibilities (chemical, pharmaceutic, and therapeutic) will be fully considered and as far as possible those most frequently encoun-

tered will be demonstrated. Blackboard exercises, home work, class quiz, and criticism of prescriptions will be special features of the course.

Didactic Pharmacy This course will begin with the lectures upon
(Senior) Pharmacy of the inorganic chemical substances. The compounds and preparations will be treated in detail and the application of the principles governing Pharmaceutical operations which were considered in the Junior year will be illustrated by being put into practice.

Manufacturing Pharmacy The work in the laboratory of practical
(Senior) pharmacy will afford the student ample opportunity of preparing many organic and inorganic compounds and ascertaining by appropriate tests their identity and purity. Every facility is provided for those engaged in assaying and carrying on plant analysis.

The organic substances considered will include the Cellulose group, amylaceous and mucilaginous principles, Sugars and their derivatives and preparations, Alkaloids, Glucosides, Assay of vegetable and animal products, Preparation of Volumetric and Test Solutions, etc.

Dispensing Pharmacy The work of the dispensing laboratory
(Senior) will consist of an enlargement of the work of the Junior year, and will deal more fully with prescription difficulties, embracing particularly the very important subjects of chemical, pharmaceutical and therapeutical incompatibilities. This course will include the manufacture and dispensing of the class of preparations treated under the head of magistral or extemporaneous Pharmacy, viz: Powders, Cachets, Troches, Pills, Suppositories, Triturations, Tablets, Tablet Triturates, Capsules, Confections, Masses, Cerates, Ointments, Plasters, etc.

Text-books: *Pharmaceutical Latin*—Muldoon. *Elementary Lessons in Latin*, Wall. *Pharmacy*—Remington, *Theory and Practice of Pharmacy*; Arny, *Principles of Pharmacy*; U. S. Pharmacopeia; Caspari, *Treatise*; American Pocket Medical Directory.

Pharmaceutical Dispensing—Scoville, *Art of Compounding*; Wall, *The Prescription*; *Incompatibilities in Prescription*, Rudimann.

Commercial Pharmacy—*Treatise on Commercial Pharmacy*; O'Connor.

COMMERCIAL PHARMACY

ADJUNCT PROFESSOR WALSDORF

Senior Year The course of instruction will be based upon practical
30 Hours experience calculated to give the pupil a true idea of
his chosen work, and will consist of a series of lectures
as outlined by the Pharmaceutical Syllabus.

DEPARTMENT OF BACTERIOLOGY

PROFESSOR DUVAL

ASSISTANT PROFESSOR HARRIS

AND ASSISTANTS

Bacteriology This course will be given in the Senior year and the
work arranged so as to prepare students for the exam-
inations of State Boards requiring this subject. Special students and
candidates for the Pharmacy degree may do advanced work under the
direction and instruction of the head of this Department and his
assistants.

CATALOG OF STUDENTS

1918-1919

COLLEGE OF MEDICINE

SCHOOL OF MEDICINE

* Died during session.

† Partial-course students.

‡ Special students.

STUDENTS OF FOURTH YEAR AND ABOVE

(INCLUDING GRADUATE STUDENTS).

CLASS OF 1919

*Awtrey, Phillip McKinley	Alabama
Baker, Claude Mosley <i>Orleans</i>	Louisiana
Beals, John Alfred "	Louisiana
Bean, Dorf (Pharm. Chem.)	Texas
Bethea, Stanford Ernest (B. Sc.)	Mississippi
Billings, Gilbert M. (A. B., B. Sc.)	District of Columbia
Blackmar, Ray Wellborn (B. Sc.)	Georgia
Blue, Alexander McNeill (M. D.)	North Carolina
Bowden, (Mrs.) Margaret Pauline Harrison	Louisiana <i>Orleans</i> ✓
Brady, Milo James <i>Orleans</i>	Louisiana
Brooksher, William Riley, Jr. (A. B.)	Arkansas
Bussey, James Everett	Texas
Castellanos (y Cardoso) Jorge Conrado	Cuba 8
Cefalu, Victor, Jr. <i>Orleans</i>	Louisiana
Clark, John Benjamin (M. D.)	Oklahoma
Clay, Berney Sumner (D. V. M.)	Alabama
Cobbs, Beverly Woodfin (A. B.)	Alabama
Crawford, Willie Sterling	Arkansas
Crowell, Tolbert Clinton <i>Orachita</i>	Louisiana
Davis, Russell Byron	Mississippi
Deignan, Joseph Paul	Georgia
Dillman, James Arl	Arkansas
Douglas, Robert Gibbs (B. Sc.) <i>Caddo</i>	Louisiana
Dupuy, Jules Emile, Jr. <i>Orleans</i>	Louisiana
Ehlinger, Rancier Burt (B. Sc.) <i>Orleans</i>	Louisiana
Faris, Henry Bertraus (A. B.) <i>St. James</i>	Louisiana
Ford, (Miss) Nell Elizabeth (A. M.)	California

Funderburk, Joe M. (B. I.)	<i>Caldwell</i>	Louisiana
Good, Brooks David (B. Sc.)		Mississippi
Hale, Richard Alexander		Texas
Halfacre, Romeo Rupert		Mississippi
Hobbs, Arthur Alexander, Jr. (A. B.)		Missouri
Holladay, Walter Robert (A. B., B. Sc.)		Mississippi
Holland, Sterling Price (M. D.)		Georgia
Holloway, Paul Dickson (B. Sc.)		Mississippi
Johnson, Brantley Mettauier (A. B.)		Georgia
Kirkpatrick, Charles Henry, Jr.		Florida
Kitts, Henry Lofton		Tennessee
Knolle, Wilkes Adams (B. Sc.)	<i>Orleans</i>	Louisiana
Kramer, Richard Shaffer	<i>St. Mary</i>	Louisiana
Lowe, James Osborne (B. Sc.)		Mississippi
Lyons, Shirley Carlton	<i>Calcasieu</i>	Louisiana
McGuire, John Jett		Florida
McLaurin, Hugh Love		Texas
McLeod, Hugh Carroll (B. Sc.)		Mississippi
McMillan, Edwin Guy (B. Sc.)		North Carolina
Maher, (Miss) Aldea (A. M.)	<i>Orleans</i>	Louisiana ✓
Manhoff, Benjamin		Texas
Martin, John David (M. D.)		Texas
Martin, John Richard		Texas
Matthews, Edgar Stanley (M D.)	<i>Stoyelles</i>	Louisiana
Millender, Charles White (A. B.)		North Carolina
Mogabgab, Anees	<i>Orleans</i>	Louisiana
Murry, Harry Eldridge		Arkansas
Neely, Paul Talmage		Texas
Parish, John Kimball, Jr.		Wisconsin
Parker, James Searcy		Alabama
Perdue, Colvin C. (A. B.)		Alabama
Perkins, Philip Samuel	<i>Calcasieu</i>	Louisiana
Polanco (y González) José		Porto Rico
Pritchett, Harry Wooding		Virginia
Rennie, Thomas Ludford (A. B.)		Alabama
Richard, Florence Stephen	<i>Jefferson</i>	Louisiana
Shultz, Will Goffrey (B. Sc.)		Oklahoma
Silva, Euripides, Jr.		Porto Rico
Smith, Benjamin Franklin (A. B.)		Missouri
Spilman, Edwin B.		Texas
Taylor, Archie (B. Sc.)		Mississippi

Thomas, Albert Richard	<i>St. Tammany</i>	Louisiana
Thompson, Otis Richard (B. Phil.)		Georgia
Wallace, Robert Boyd (B. Sc.)		Alabama
Watson, Thomas Mervelle (B. Sc., Med.)		N. Carolina
West, Arthur William	<i>Orleans</i>	Louisiana
White, Earl Thomas		Mississippi
Wilkerson, William Washington		Alabama
Wilson, John Calvin		Arkansas
Wolff, Irving Joseph (A. B.)	<i>Monchouse</i>	Louisiana
Woodward, James Ira (M. D.)		Mississippi
Woolsey, Bertram Frederick (B. Sc.)		Oklahoma

THIRD YEAR STUDENTS, CLASS OF 1920

Adam, Alfred Louis	<i>Jefferson</i>	Louisiana
Adams, Fred (B. Sc.)		Tennessee
Albritton, Evrett Cyril (A. B.)	<i>Orleans</i>	Louisiana
Allen, William Oscar	<i>Orleans</i>	Louisiana
Armstrong, Eugene Lawson	<i>Orleans</i>	Louisiana
Axelrod, Alexander		Texas
Battalora, George Clarence	<i>Orleans</i>	Louisiana
Bennett, Terry Lee	<i>Catahoula</i>	Louisiana
Birchett, John Alexander Klein, Jr.		Mississippi
Blackmar, Francis Burton		Georgia
Blincoe, Homer Raymond (A. B., M. Sc.)		Kansas
Boulet, Irwin James	<i>Orleans</i>	Louisiana
Bowlin, Robert Leslie		Mississippi
Brown, Charles Lafayette		Texas
Bruner, Joseph Clyde (A. B.)	<i>Acadia</i>	Louisiana
Brunot, Felix Reville		Pennsylvania
Burkhead, Jesse DeWitt		Alabama
Carter, John Hardin		Florida
Christoffer, Oscar Theodore		Texas
Colomb, Brooks Amedée	<i>St. James</i>	Louisiana
Davidson, Julius Meyer		Mississippi
Delahoussaye, Roy Edward (B. Sc.)	<i>St. Mary</i>	Louisiana
Fears, Thaddeus Alvin		Texas
Field, Richard Jennings		Mississippi
Field, Sam Eugene		Mississippi
Folse, Henry Arthur (A. B.)	<i>Assumption</i>	Louisiana
French, Harry Joseph	<i>St. Martin</i>	Louisiana
Frère, John Marsh	<i>St. Mary</i>	Louisiana
Gallo, Frank	<i>Orleans</i>	Louisiana

Gardiner, Walter Peters	<i>Orleans</i>	Louisiana
Garrett, Ephraim Spencer, Jr.		Alabama
Gilder, Wayne (A. B.)		Alabama
Gladney, John Davidson	<i>Claiborne</i>	Louisiana
Gooch, Lewis Melvin		Texas
Granata, Sam Vincent	<i>St. Mary</i>	Louisiana
Granberry, Carl Ellis (B. Sc.)		Mississippi
Gravlee, Ike Marion		Mississippi
Harris, Homer Perseus		Alabama
Hawthorne, Julian	<i>Orleans</i>	Louisiana
Heath, Guy Wilkerson		Alabama
Hobson, Sam, Jr.		Mississippi
Hoffman, James Mortimer (A. B.)	<i>Orleans</i>	Louisiana
Huggins, Isaac Clifton		Mississippi
Humber, John Davis (B. Sc.)		North Carolina
Jaeggli, Sam		Texas
Jaubert, Francis Leon	<i>Orleans</i>	Louisiana
Johnson, Clifford Uriah	<i>Ouachita</i>	Louisiana
Jones, Curtis Whittemore		Arkansas
Jones, Philip Harold, Jr., (A. B.)	<i>E. Baton Rouge</i>	Louisiana
Jung, Theodore August, Jr., (A. B.)	<i>Orleans</i>	Louisiana
Kerlin, Douglas Ledbetter	<i>Claiborne</i>	Louisiana
Kittrell, John Moore		Mississippi
LeJeune, Francis Ernest (B. Sc.)	<i>Orleans</i>	Louisiana
Linfield, Edwin Harper		Mississippi
Long, Louis Bernard (A. B.)		Florida
Love, Thomas Stafford		District of Columbia
McAdoo, Hosea Webster		Arkansas
Marsalis, Don S.	<i>Lincoln</i>	Louisiana
May, William Ross		Mississippi
Miller, Martin Owen	<i>Cameron</i>	Louisiana
Moore, John Morgan		Texas
Morgan, Albert Reynauld (A. B.)	<i>Acadian</i>	Louisiana
Moseley, Sam Olliphant (A. B.)		Cuba
Moss, Olin Winn	<i>Calcasieu</i>	Louisiana
Ogden, Hilaire D., Jr.	<i>Orleans</i>	Louisiana
Rateau, Jules Brunet (Gr. Pharm.)		Texas
Rigby, Owen Compton		Mississippi
Rozier, Lauchlin McKinnon (A. B.)		Alabama
Savoy, Frank	<i>St. Landry</i>	Louisiana
Scott, Richard Croker	<i>Rapides</i>	Louisiana

Sparks, Thomas Plewman, Jr.	Mississippi
Stafford, Hollis Ancil <i>Washington</i>	Louisiana
Stiles, James Hooper	Texas
Taylor, James Leslie, Jr.	Alabama
Thorpe, Eugene Davis (A. B.)	Florida
Tisdale, Alfred Dent (B. Sc.)	Mississippi
Unsworth, Herbert Randolph <i>Orleans</i>	Louisiana
Wagner, William Alfred "	Louisiana
Whiteside, Maurice Scarbrough	Alabama
Whitfield, Bryan Watkins (B. Sc.)	Alabama
Wichser, Clarence John (B. Sc.) <i>Orleans</i>	Louisiana
Wilson, Frank Cunningham	Alabama
Woodruff, Gerald Guinness (A. B.)	Alabama
Woodward, Sam Bee (B. Sc.)	Mississippi
Wright, Roy William <i>Winn</i>	Louisiana
Zander, Edwin Lionel Joseph <i>Orleans</i>	Louisiana

SECOND-YEAR STUDENTS, CLASS OF 1921

Anderson, Thomas Jefferson (A. B.)	Alabama
Barfield, (Miss) Melson (B. Sc.)	Alabama
Bienvenu, Lionel Joseph, Jr., (B. Sc.) <i>St. Landry</i>	Louisiana
Brewster, Walter Rogers (A. B.) <i>Orleans</i>	Louisiana
Calhoun, Samuel Leslie <i>Concordia</i>	Louisiana
Campbell, Earl Roy (A. B.)	Alabama
Carter, James Johnston (B. Sc.)	Mississippi
Cassity, Jack Holland	Texas
Cleveland, Claude Mastin	Alabama
Coleman, Denzil	Florida
Cox, Charles Lynwood	Mississippi
Cox, Henry Tyus	Texas
Cruthirds, Archie Edward (A. B.) <i>St. Tammany</i>	Louisiana
Crutsinger, Paul	Texas
Dees, (Miss) Marie Byrd (A. B., B. Sc.)	Mississippi
Dismuke, (Miss) Lily Lyle (A. B.)	Georgia
Dodd, Robert Lapsley	Mississippi
Drouin, (Miss) Ethel Marie <i>Thoyzelles</i>	Louisiana ✓
Duffy, Morris James <i>Orleans</i>	Louisiana
Elder, Samuel Fletcher (A. B.) <i>Bossier</i>	Louisiana
Ernst, Harold Oliver <i>Orleans</i>	Louisiana
Estévez, Rafael	Arizona
Gilmer, Peachy Robert <i>Caddo</i>	Louisiana

Grayson, William Bandy		Arkansas
Grossman, Louis Meyer	<i>Orleans</i>	Louisiana
Harris, Earl (Pharm. Chem.)		Texas
Harvey, Altus Buren (B. Sc.)		Mississippi
Hawkins, Josiah Edwin	<i>Evangeline</i>	Louisiana
Lescale, Charles Maurice	<i>Orleans</i>	Louisiana
Lewis, Charles Franklin (B. Sc.)		Alabama
Littell, Robert Moses, Jr.	<i>St. Landry</i>	Louisiana
Lloyd, William Kiddoo (A. B.)		Alabama
Lyle, Judge Matthew, Jr.		Texas
McMahon, Rhett Gustavus	<i>E. Baton Rouge</i>	Louisiana
Macheca, Henry Austin	<i>Orleans</i>	Louisiana
Magee, Henry Cone (A. B.)		Texas
Martin, Walter Simeon		Texas
Martorell, Abelardo		Florida
Miller, Harold Avery (B. Sc.)		South Dakota
Mixson, Harold Joyce		Florida
Mouton, Carroll Joseph (B. Sc.)	<i>Lafayette</i>	Louisiana
Neely, John William		Texas
Peon, Ignacio Enrique		Mexico
Phillips, Stonewall Jackson	<i>Rapides</i>	Louisiana
Pool, Robert McCaughrin (A. B.)		South Carolina
Puckett, Forest		Texas
Quinn, Harold Joseph	<i>Caddo</i>	Louisiana
Robbins, Isidore Leon	<i>Orleans</i>	Louisiana
Rodick, John Clement	<i>"</i>	Louisiana
Russell, Daniell Abell		Texas
Sanders, John T.		Alabama
Scott, Leroy Havard (A. B.)	<i>Rapides</i>	Louisiana
Sicomo, Joseph	<i>Orleans</i>	Louisiana
Simpson, Wiley Terrell		Alabama
Socola, Edwin August	<i>Orleans</i>	Louisiana
Sternberg, Samuel	<i>"</i>	Louisiana
Vidrine, Arthur (A. B.)	<i>St. Landry</i>	Louisiana
Wagner, Richard	<i>Orleans</i>	Louisiana
Walker, William White (B. Sc.)		Mississippi
Weiss, Abram	<i>Rapides</i>	Louisiana
Williams, Richard Zoelly	<i>Orleans</i>	Louisiana
Young, Robert Jackson (B. Sc.)	<i>Vermilion</i>	Louisiana

FIRST-YEAR STUDENTS, CLASS OF 1922

Abbott, Charles Edward, Jr.	Alabama
Aucoin, Albert Frank <i>Lafourche</i>	Louisiana
Ball, Charles Joseph <i>Orleans</i>	Louisiana
Bell, Justin Edward (A. B.) <i>Lincoln</i>	Louisiana
Blackshear, Gill Wyeth	Alabama
Blum, Walter Leo <i>Orleans</i>	Louisiana
Bonfiglio, John	Mississippi
Bookout, Bertram Eggleston	Mississippi
Britt, Otis Winfield	Alabama
Burke, Francis Marion	Texas
Butler, Hull Wesley (Pharm. B.) <i>Orleans</i>	Louisiana
Carlisle, James Leo	Alabama
Clark, Laurance James	Mississippi
Devron, Cyril Gustavus <i>Orleans</i>	Louisiana
Dirmann, Florau William, Jr., <i>Orleans</i>	Louisiana
Gaudet, James Amedeé, Jr. <i>Orleans</i>	Louisiana
Gillespy, Robert Rose	Alabama
Goldstein, Benjamin	Alabama
Good, Robert McGowan (B. Sc., A. M.)	Mississippi
Gordon, Robert Lionel <i>Orleans</i>	Louisiana
Gordon, William Hendon (B. Sc.)	Alabama
Grant, George Bass	Texas
Haller, Edwin Nicholas	Alabama
Harrell, Forrest Worth <i>Lincoln</i>	Louisiana
Haygood, James Kern (B. Sc.)	Alabama
✓ Hinton, (Miss) Helen Elizabeth (A. B.)	Mississippi
Johnson, Charles Isaac (B. Sc.)	Alabama
Jones, Edley Hicks (B. Sc.)	Mississippi
Jones, James Earl	Texas
Jones, William Ellie (B. Sc.)	Alabama
Koonce, Philip Benton <i>Calcasieu</i>	Louisiana
McBride, William McGinty <i>Jackson</i>	Louisiana
McLellan, Charles Samuel	Alabama
Martinez, Diego Benigno <i>Orleans</i>	Louisiana
Martinez, (Valenzuela) Rafael (B. Sc.)	Sp. Honduras ✕
Merilh, Edmond Louis (B. Sc.) <i>Orleans</i>	Louisiana
Milam, DeWitt Talmadge <i>Winn</i>	Louisiana
Moseley, Ernest Earl	Georgia
Olinde, Dewey Joseph <i>St. Tammany</i>	Louisiana
Palermo, Joseph Paul <i>Orleans</i>	Louisiana

Penn, Richard Thurman	Alabama
Roberts, Ralph Smith	Iowa
Rocquet, (Miss) Corinne Marie (A. B. <i>Orleans</i>)	Louisiana ✓
Russell, Richard Olney	Alabama
Sanchez, (Ojeda) Amado	Mexico
✓ Savage, (Miss) Kate (B. Sc.)	Tennessee
Seal, Herman	Alabama
Setzler, George Byron	Arkansas
Shipman, James Shelby (A. B.)	Mississippi
Stillman, William King	Georgia
Toler, Edward Blackburn	Missouri
Townsend, Ernest Witt (A. B.)	Arkansas
Warner, Clyde Moore	Texas
Whitaker, James Ezekiel (B. L.)	Alabama
Wooten, Greenwood Sylvester	Texas

STUDENTS TAKING SPECIAL COURSES

Blake, (Miss) Georgie Ruffin	Alabama
Dunn, (Miss) Leonore May	Mississippi
Eldredge, Hartwell Alison (M. D.) <i>Vermilion</i>	Louisiana
✓ Ewin, (Miss) Lucy Hendon	Mississippi
Glass, (Mrs.) Willie Elmore	Alabama
Key, (Miss) Nellie Hines	Arkansas
Meadows, (Miss) Alice Serena	Georgia
Moncrief, (Miss) Birtie	Tennessee
Moore, Charles Walton Cary (M. D.)	Alabama
✓ Poirrier, (Mrs.) Florence Naomi Murphy	Louisiana ✓ <i>E. Baton Rouge</i>
Robinson, Rameal Dudley (M. D.)	Ohio

STUDENTS OF SECOND PRE-MEDICAL YEAR, CLASS OF 1923

Baron, Joseph <i>Orleans</i>	Louisiana
Battalora, Harold Joseph <i>Orleans</i>	Louisiana
‡ Baylis, George Benjamin, Jr.	Mississippi
Bierhorst, Henry Rehm <i>Orleans</i>	Louisiana
✓ Biles, (Miss) Sethelle Phedre (A. B.)	Mississippi
Campagna, Maurice <i>Orleans</i>	Louisiana
Carter, Clarence Strouse <i>Trayelles</i>	Louisiana
Cerda, Salvador, Jr.	Costa Rica
Cocchiara, Peter <i>Orleans</i>	Louisiana
Davison, Emile Arthur <i>Orleans</i>	Louisiana
Dixon, William McMaster <i>Orleans</i>	Louisiana
Donaldson, Pierre Armand <i>St. John Baptist</i>	Louisiana

Dyar, James Peryno	<i>Orleans</i>	Louisiana
Evans, John Rufus (Pharm. G.)		Georgia
Fitzgerald, Willard Lee		Alabama
Floyd, Paul Herman	<i>Calcasieu</i>	Louisiana
Girard, Percy Meritt	<i>Lafayette</i>	Louisiana
Hazen, Olen B		Florida
Henderson, Roy Earl		Texas
Henderson, William Kirby		Mississippi
Johnson, Paul Earnal		Arkansas
Kennedy, Robert Louis		Georgia
Landry, Odey Francis	<i>Iberia</i>	Louisiana
Lorio, Cecil Oliver (B. Sc.)	<i>Pointe Coupee</i>	Louisiana
Lothrop, Guy Irving	<i>Orleans</i>	Louisiana
Menville, Paul Louis	<i>Terrebonne</i>	Louisiana
Montelepre, Philip	<i>Orleans</i>	Louisiana
Muñiz-Rodriguez, Antonio		Porto Rico
Randazzo, Matthew Joseph	<i>Itasca</i>	Louisiana
Rosenthal, Irwin William	<i>Orleans</i>	Louisiana
Salazar, (y Baldiaceda) Mariano		Costa Rica
Scott, (Miss) Irma Emma	<i>Monroe</i>	Louisiana
Shuffield, Joseph Franklin		Arkansas
Siess, Guy Edward	<i>Rapides</i>	Louisiana
Souchon, Edmond II	<i>Orleans</i>	Louisiana

STUDENTS OF FIRST PRE-MEDICAL YEAR, CLASS OF 1924

Brumfield, Robert Hugh		Mississippi
Burton, Breck Musgrove		Alabama
Cohen, Hymen Leon		Mississippi
Cullinane, (Miss) Catherine Anna	<i>Orleans</i>	Louisiana
Dannenbauer, (Miss) Marie		Texas
d'Aquin, John Joseph, Jr.	<i>Orleans</i>	Louisiana
DeRouen, Walter Clarence, Jr.	"	Louisiana
Duarte y Otero, Joaquin (B. Sc.)	"	Louisiana
Feldner, George Deidrich	"	Louisiana
Gaulon, Aristide Charles	"	Louisiana
Grunewald, Hudson Charles	"	Louisiana
Guenther, John Charles		Texas
Hyman, Earl	<i>Orleans</i>	Louisiana
Karnofsky, Hyman	<i>Orleans</i>	Louisiana
Katz, Harold		Mississippi
LeDoux, Morris Sterling	<i>Vermilion</i>	Louisiana

McGee, Harry Hand, Jr.	Georgia
Ogletree, Henry Woods	Texas
Quinn, George Patrick <i>Caddo</i>	Louisiana
Rike, Heber C.	Tennessee
Robertson, (Miss) May Clare	Mississippi
Rosen, Warren Leucht <i>Orleans</i>	Louisiana
Sebastian, Newton Loomis <i>East Feliciana</i>	Louisiana
Smith, James Lennard	Georgia
Tunstall, Wheeler MacCurdy	Alabama
Urrutia, Aureliano, Jr.	Texas
Urrutia, Carlos	Texas
Wight, Bennett Allen	Oklahoma

SCHOOL OF PHARMACY

STUDENTS OF SECOND YEAR AND ABOVE, CLASS OF 1919

Breaux, Numa Pierre <i>Safayette</i>	Louisiana
Castillo, (y Ruiz) Rodolfo <i>Orleans</i>	Louisiana
Dreyfus, Henry Leon <i>Pointe Coupee</i>	Louisiana
Mayer, Donald K. <i>Franklin</i>	Louisiana
Pérez, (Peña) Fernando	Cuba
Rodriguez, (Rey) (Miss) Consuelo <i>Orleans</i>	Louisiana
Santisteban-Villegas, Francisco Demetrio	Cuba

FIRST-YEAR STUDENTS, CLASS OF 1920

Breazeale, John Bridges	Mississippi
Burnett, (Miss) Lela	Mississippi
Cutitto, (Miss) Catherine Marie <i>Orleans</i>	Louisiana
Danneker, John Martin <i>Orleans</i>	Louisiana
Dupuy, Lee Irwin	Arkansas
Garrett, Thomas Whitby	Alabama
Gately, Leonard Edwards <i>Orleans</i>	Louisiana
Jackson, Leslie Sneed <i>Tangipahoa</i>	Louisiana
Lafont, Carl Marcel <i>Orleans</i>	Louisiana
Lambrecht, (Miss) Theresa	Mississippi
Nail, William	Arkansas

COLLEGE OF MEDICINE

SCHOOLS OF MEDICINE AND PHARMACY

GRADUATES OF 1919

At the Eighty-fourth Annual Commencement, held Thursday,
June 12, 1919, degrees were conferred on 73 graduates.

SCHOOL OF MEDICINE

Doctors of Medicine

*Received Hospital Appointment.

**Died January 6, 1919. Posthumous degree.

**Awtrey, Phillip McKinley	Steele, Alabama
*Baker, Claude Mosley	New Orleans, Louisiana
Beals, John Alfred	New Orleans, Louisiana
Bean, Dorf	Kirbyville, Texas
*Betha, Stanford Ernest	Hattiesburg, Mississippi
*Billings, Gilbert M.	Washington, D. C.
Blackmar, Ray Wellborn	Columbus, Georgia
Bowden, (Mrs.) Margaret Pauline Harrison	New Orleans, Louisiana
Brady, Milo James	New Orleans, Louisiana
Brooksher, William Riley, Jr.	Fort Smith, Arkansas
*Bussey, James Everett	Longview, Texas
Castellanos, (y Cardoso) Jorge Conrado	San Luiz, Cuba
*Cefalu, Victor, Jr.	New Orleans, Louisiana
*Clay, Berney Sumner	Bessemer, Alabama
Cobbs, Beverly Woodfin	Montgomery, Alabama
*Crawford, Willie Sterling	Marianna, Arkansas
*Crowell, Tolbert Clinton	Monroe, Louisiana
*Davis, Russell Byron	Bond, Mississippi
Deignan, Joseph Paul	Columbus, Georgia
*Dillman, James Arl	Paragould, Arkansas
*Douglas, Robert Gibbs	Dixie, Louisiana
*Dupuy, Jules Emile, Jr.	New Orleans, Louisiana
*Ehlinger, Rancier Burt	New Orleans, Louisiana
*Faris, Henry Bertraus	Convent, Louisiana
*Ford, (Miss) Nell Elizabeth	San Francisco, California
Funderburk, Joe M.	Vixen, Louisiana
*Good, Brooks David	Water Valley, Mississippi
*Hale, Richard Alexander	Camilla, Texas
Halfacre, Romeo Rupert	Seminary, Mississippi
*Hobbs, Arthur Alexander, Jr.	Kansas City, Missouri
*Holladay, Walter Robert	Meridian, Mississippi
Holloway, Paul Dickson	Collins, Mississippi
*Johnson, Brantley Mettauer	Macon, Georgia

*Kirkpatrick, Charles Harry, Jr.	Arcadia, Florida
*Kitts, Henry Lofton	Corryton, Tennessee
*Knolle, Wilkes Adams	New Orleans, Louisiana
*Kramer, Richard Shaffer	Franklin, Louisiana
*Lowe, James Osborne	Nettleton, Mississippi
*Lyons, Shirley Carlton	Sulphur, Louisiana
*McGuire, John Jett	DeFuniak Springs, Florida
*McLaurin, Hugh Love	Dallas, Texas
*McLeod, Hugh Carroll	Hattiesburg, Mississippi
McMillan, Edwin Guy	Laurinburg, North Carolina
Maher, (Miss) Aldea	Algiers, Louisiana
*Manhoff, Benjamin	San Antonio, Texas
*Martin, John Richard	Georgetown, Texas
*Millender, Charles White	Asheville, North Carolina
*Mogabgab, Anees	New Orleans, Louisiana
*Murry, Harry Eldridge	Bearden, Arkansas
*Neely, Paul Talmage	Bellville, Texas
*Parish, John Kimball, Jr.	Ashland, Wisconsin
*Parker, James Searcy	Elrod, Alabama
Perdue, Colvin C.	Furman, Alabama
*Perkins, Philip Samuel	Sulphur, Louisiana
*Polanco (y Gonzalez), Jose	Isabela, Porto Rico
*Pritchett, Harry Wooding	Danville, Virginia
*Rennie, Thomas Ludford	Pell City, Alabama
*Richard, Florence Stephen	Gretna, Louisiana
Shultz, William Goffrey	Oklahoma City, Oklahoma
*Silva, Euripides, Jr.	Cabo Rojo, Porto Rico
*Smith, Benjamin Franklin	Southwest City, Missouri
*Spilman, Edwin B.	Claude, Texas
*Taylor, Archie	Humphreys, Mississippi
*Thomas, Albert Richard	Talisheek, Louisiana
*Thompson, Otis Richard	Pinehurst, Georgia
*Wallace, Robert Boyd	Camden, Alabama
*Watson, Thomas Mervelle	Wagram, North Carolina
West, Arthur William	New Orleans, Louisiana
*White, Earl Thomas	Merigold, Mississippi
*Wilkerson, William Washington	Montgomery, Alabama
*Wilson, John Calvin	Columbus, Arkansas
*Wolff, Irving Joseph	Bastrop, Louisiana
Woolsey, Bertram Frederick	Hennessey, Oklahoma

SCHOOL OF PHARMACY

Graduates in Pharmacy

Numa Pierre Breaux	Carencro, Louisiana
Rodulfo Castillo y Ruiz	New Orleans, Louisiana
Henry Leon Dreyfus	Livonia, Louisiana
Donald K. Mayer	Winnboro, Louisiana
Fernando Pérez y Peña	Cienfuegos, Cuba
Consuelo Rodriguez Rey (Miss)	Cienfuegos, Cuba
Francisco Demetrio Santisteban- Villegas	Manzanillo, Cuba



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Tulane University of Louisiana COLLEGE OF MEDICINE

(Established in 1834.)

GRADUATE SCHOOL OF MEDICINE

Thirty-third Annual Session Opens September 22, 1919, and
Closes June 5, 1920.

Physicians will find the Polyclinic an excellent means for posting themselves upon modern progress in all branches of medicine and surgery, including laboratory, cadaveric work, and the specialties.

For further information, address:

TULANE COLLEGE OF MEDICINE,

P. O. Box 770, New Orleans, La.